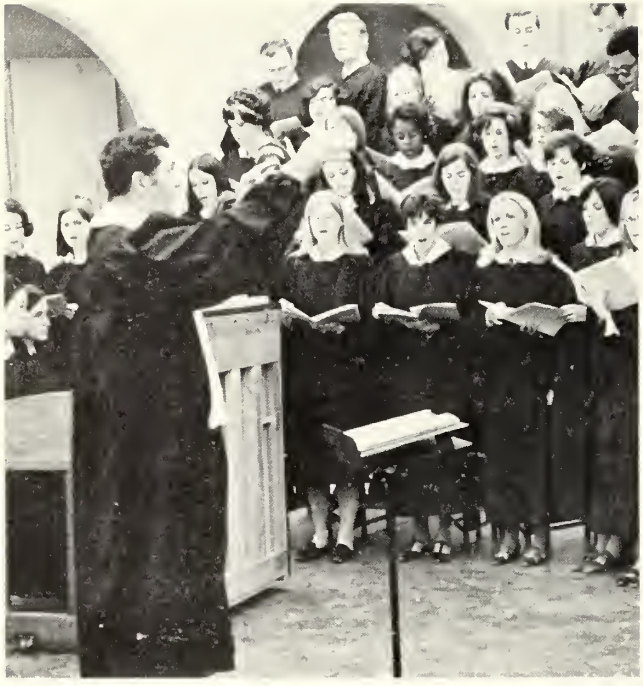
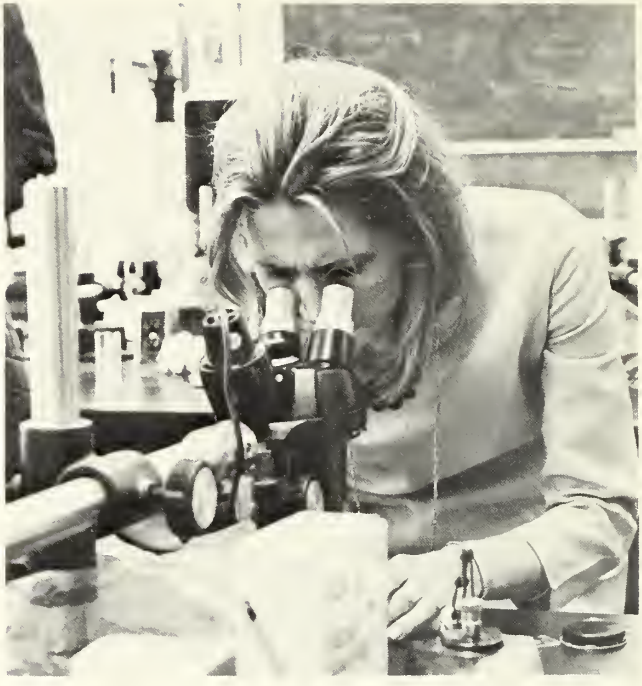
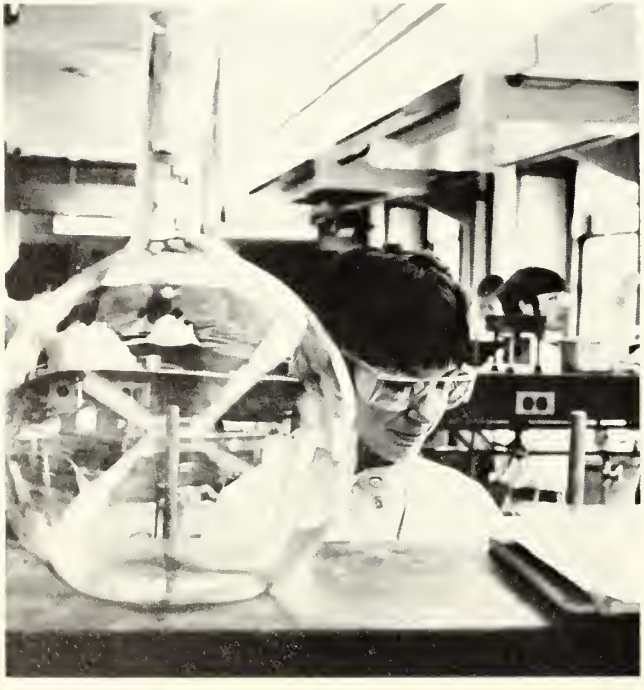
UNIVERSITY OF MASSACHUSETTS BULLETIN

Boston 1969-1970 Catalog







VOLUME LXI MARCH, 1969 NUMBER III

Published eleven times a year by the University of Massachusetts: in February, March (3), June, August, September, November (2) and December (2). Second class postage paid at Amherst, Massachusetts 01002.

The Catalog of the University of Massachusetts at Boston presents announcements concerning its sessions of 1969–1970. All students are responsible for observing the regulations in this catalog. The University reserves, for itself and its departments, the right to change its announcements or regulations whenever such action is deemed appropriate and necessary.

It is the policy of the University of Massachusetts that any and all acceptance of students for admission be without regard to race, color, or national origin.

1969-1970 CATALOG

UNIVERSITY OF MASSACHUSETTS AT BOSTON

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1969-1970 ACADEMIC CALENDAR

FALL TERM

Wednesday, September 10	Registration, Classes of 1970 and 1971
Thursday, September 11	Registration, Class of 1972
Friday, September 12	Registration, Class of 1973
Monday, September 15	Classes begin
Monday, October 13	Holiday
Tuesday, November 11	Holiday
Wednesday, November 26	Thanksgiving recess begins after last class
Monday, December 1	Classes resume
Friday, December 19	Christmas vacation begins after last class
Monday, January 5	Classes resume
Friday, January 9	Reading period begins after last class
Thursday, January 15	Final examinations
Tuesday, January 27	Last day of final examinations

SPRING TERM

Wednesday, February 4	Registration, Classes of 1970 and 1971
Thursday, February 5	Registration, Class of 1972
Friday, February 6	Registration, Class of 1973
Monday, February 9	Classes begin
Monday, February 16	Holiday
Friday, March 20	Spring vacation begins after last class
Monday, March 30	Classes resume
Tuesday, April 7	Monday class schedule to be followed
Monday, April 20	Holiday
Wednesday, May 20	Reading period begins after last class
Tuesday, May 26	Final examinations begin
Friday, June 5	Last day of final examinations
Friday, June 12	Commencement

A MESSAGE FROM THE CHANCELLOR

The University of Massachusetts at Boston is a new urban state university founded to help provide educational opportunities and services needed by the citizens of Greater Boston at low cost. Now four years old, it graduated its first class in June, 1969. In 1969–1970, 3,500 students are enrolled.

Thus far, the University has centered its efforts on an undergraduate curriculum in the liberal arts and sciences, seeking quality in this traditional area before moving into other fields. It gathers a community together on a generous student-faculty ratio (15–1) and then seeks to perform the perennial tasks of Western universities: to preserve and transmit what is known, to inquire into what is unknown, to train a new generation for its own inquiries into the known and the unknown.

In seeking to graduate liberally educated men and women, the University encourages its students to seek mastery over language (their own and one or more foreign languages) and to gain insight into the culture that these languages express; to probe the value of formal thought; to learn more about animate and inanimate nature; to become more aware of the methods and results of disciplines that investigate man, his institutions, his culture, and his physical world; to test man's aspirations against his experience as understood by the various disciplines.

As the University grows, it will go beyond its undergraduate curriculum in the liberal arts. It now has a Teacher Certification Program that meets the state standards. This fall, for the first time, it offers graduate courses in mathematics. Other programs will follow as our resources and the needs of the people we serve permit and demand.

The University, which as a commuting school has no residences, is located in the center of Boston, next to the Statler Hilton in Park Square, two blocks away from the Arlington Station of the MBTA, a block away from two bus terminals and two blocks from the Back Bay railroad station. The main building at 100 Arlington Street is supplemented by six other buildings in the neighborhood of Park Square.

The University at Boston is part of the state-wide university system which includes the university campus at Amherst and the Medical School in Worcester.

Francis L. Broderick

GENERAL INFORMATION

Major Programs Available

DIVISION OF HUMANITIES
Art
Classics
English
French
German
Italian
Philosophy
Russian
Spanish

DIVISION OF MATHEMATICS
Mathematics

DIVISION OF NATURAL SCIENCES
Biology
Chemistry
Physics

DIVISION OF SOCIAL SCIENCES
Economics
History
Politics
Psychology
Sociology-Anthropology

Preparations, but not major programs, are also available at the Boston campus in Pre-Law, Pre-Medical, Pre-Dental, and Pre-Veterinary programs, as well as in teacher certification for the elementary and secondary schools.

Library

The University Library book collection contains approximately 50,000 volumes. Over 1,000 domestic and foreign journals are received currently in the periodical room. The main library, housed in the former First Cadet Armory, is a spacious building which provides room for housing books, seating students and conducting library operations. In addition, a new science library, containing the collections in Biology, Chemistry, Mathematics and Physics, is located in the University's main building. The library is easily accessible from all of the University buildings and forms a natural nucleus in its present site. In the main reading room and the periodical room, individual carrels provide seating for 350 students. The library's resources support the teaching programs of the University on every level.

Language Laboratories

The language laboratories of the University at Boston have the most modern electronic equipment available. With seventy-one student positions in three different laboratories, students have the opportunity of extended contact with the foreign language being studied. The tapes used in laboratory sessions are closely correlated with classroom studies, and the recordings made by students during laboratory sessions can be played on standard recorders at home for advanced, individual study in such fields as drama, literature and music.

Students enrolled in courses which use the facilities of the language laboratories are required to pay a laboratory fee.

Admission

Applications.

Applications for admission may be obtained from the Admissions Office, 100 Arlington Street, Boston 02116. Out-of-state and foreign applicants should return their completed forms *before* February 1, and instate applications should be returned *before* March 1. *No application fee is required.*

Applicants are invited to visit the campus where group meetings for visitors will be held on most Tuesday, Wednesday and Thursday afternoons at 3 p.m. This will be an appropriate time to tour the campus and ask questions. An applicant should be assured, however, that if he is unable to visit Boston his application will be in no way disadvantaged.

A personal conference may be scheduled if the University deems it necessary or if the candidate or his guidance counselor has a question that cannot readily be resolved otherwise.

Testing Procedure.

All applicants must take the Scholastic Aptitude Test given by the College Entrance Examination Board. The University requires three College Board Achievement tests, including English Composition. All College Board Test reports must be sent directly to the Admissions Office, University of Massachusetts, Boston, Massachusetts 02116, from the College Board Testing Center. The applicant himself must notify the Board that he wishes his scores sent to this University. Veterans who have been out of high school for two or more years should take the above College Board Tests again.

Foreign students should contact the Admissions Office for specific information about testing required of them.

Acknowledgement and Notification.

In most cases applicants will be notified by letter during April of the action taken on their applications. Applicants who present strong academic records, enthusiastic school recommendations, and satisfactory College Board scores will receive earlier notification. This early notification should reassure the well-qualified applicant regarding college entrance and enable the student who has selected the University as his choice of college to settle his plans. Applicants accepted at an early date, however, are under no pressure to make a final decision in regard to their choice of college before the Candidate's Reply Date. In this way the burden of multiple applications on high school guidance counselors and college admissions officers may be lessened.

Advanced Placement.

Students whose scores on Advanced Placement examinations meet standards determined by the University shall be regarded as meeting the equivalent University requirements. The College Entrance Examination Board Advanced Placement examinations or special examinations given by the University will determine advanced placement.

Students who wish to continue the study of a language in which they have had previous training are required to take an appropriate placement test. Placement tests are administered by the University prior to registration for the fall term. Students will be placed at the level of study indicated by the results of the tests; the intermediate level requirement may be met by achieving an adequate score.

Transfer Students.

A limited number of transfers from approved colleges may be admitted. Since applicants for transfer exceed the number that can be accepted, they are placed on a competitive basis. Evaluations will be based upon high school and college records and on the College Board Scholastic Aptitude Tests, which are required of all transfers. Any student who has been previously enrolled in a college is considered a transfer and must file a transfer application form. Applicants for transfer should write to the Admissions Office for a Transfer Application.

All transfer students who are candidates for a Bachelor's Degree must take at least 45 semester credits in residence as well as fulfill all University requirements for graduation.

As a part of the Massachusetts system of higher education, the University recognizes its kinship with the regional Community Colleges and therefore guarantees that the student who has completed the Community College transfer program, is fully qualified, and has the recommendation of the Community College, will be accepted for transfer into the four-year program. Appropriate courses given at the Community College will be fully accepted for transfer credit and applied to core curriculum requirements where possible.

Tuition, Fees and Expenses

Tuition.

As a state institution the University of Massachusetts at Boston offers a low rate of tuition to all students entering from the Commonwealth. Eligibility for admission under the low residential rate is determined in accordance with the following policy established by the Board of Trustees.

A student must present evidence satisfactory to the Treasurer of the University that his domicile is in the Commonwealth of Massachusetts in order to be considered eligible to register in the University as a resident student. This means that he must have established a "bona fide" residence in the Commonwealth with the intention of continuing to maintain it as such.

The domicile of a minor shall follow that of the parents unless such minor has been emancipated. In case of emancipation, the student, in addition to the requirements of these regulations respecting residence, shall present satisfactory proof respecting emancipation. Minors under guardianship shall be required to present, in addition to the certification of the domicile of the guardian, satisfactory documentary evidence of the appointment of the guardian. No student shall be considered to have gained residence by reason of his attendance in the University, nor shall a student lose residential preference during his continuous attendance at the University. The residence of a wife shall follow that of the husband. The prescribed form of application for classification as to residence status must be executed by each student. Misrepresentation of facts in order to evade the payment of out-of-state tuition shall be considered sufficient cause for suspension or permanent exclusion from the University. Discretion to adjust individual cases within the spirit of these rules is lodged with the President of the University.

Expenses.

Normally expenses vary from approximately $350 to $450 per year. The following estimate of a year's expenses includes only those items which are strictly college-related. Tuition for residents of Massachusetts is $200 per year and for others $600.

Tuition	$200
Student Activities Fee	30
Health Services Fee	24
Student Medical/Surgical Insurance 12 months coverage optional	33
Books, stationery, laboratory and other supplies (estimate)	100
	$387

There is no provision made for room and board expenses as the University of Massachusetts at Boston is non-residential.

Initial Payment for Freshmen.

The initial payment for first semester expenses required of freshmen and transfer students prior to fall registration, and other expenses reasonably expected, are indicated below:

	Residents of Massachusetts	*All Others*
Tuition	$100	$300
Less: Credit for Matriculation Fee	(15)	(15)
Net Tuition	85	285
Student Activities Fee	15	15
Health Services Fee	12	12
Student Medical/Surgical Insurance 12 months' coverage (optional)	33	33
Total of first semester Student Fee Bill	$145	$345
Books, Stationery, Laboratory and other supplies (estimate)	50	50
Total	$195	$395

The figures for books, stationery, etc., are approximate; they vary depending upon courses chosen and individual needs. Students should be prepared to pay cash for books and incidental supplies. Certain departments make special charges for necessary laboratory supplies. A bill will be rendered to the parent of each student prior to the beginning of the semester.

Student Activities Fee.

Used to support programs and activities beneficial to students, such as the recognized student organizations and the University Cultural Events Committee.

Student Health Fee.

Used to support the University Health Services and its programs.

Medical Surgical Insurance.

An optional plan providing hospital, medical, and surgical care on a twelve-month basis for injuries or illness during the school year, holidays and summer vacation. Students who register for the Fall semester have only one opportunity to enter or reject this program each year, at the time of payment of the Fall semester bill. It is also offered on the Spring semester bill for new spring registrants only. Dependents of married students are not covered under this plan. Coverage for dependents is available at additional cost. Inquire at the Student Affairs Office.

Payment Due Dates.

In accordance with University policy all charges for tuition and fees are due and payable approximately 21 days prior to the date of registration of each semester. Bills will be rendered in advance with due date shown and should be returned with the proper payment to the Office of the Treasurer, University of Masachusetts at Boston, 100 Arlington Street, Boston, Massachusetts 02116. Students may not register until all University charges are paid or otherwise accounted for.

Scholarship Payments.

It is the responsibility of all scholarship holders to see that the University is adequately notified prior to the time fee bills are prepared. Known scholarships are shown on the fee bills. If such items are not shown, deductions may not be made from the bill until satisfactory evidence has been presented to the Treasurer of the University by the donor.

Late Payment and Registration.

Any student who does not make payment of his semester charges by the date specified may be required to pay a late payment fee of $5.

Tuition and Fee Refunds.

A student who leaves the University for any reason, except as specified below, before a semester is completed will be granted a pro rata refund of tuition and fees. A student who makes an advance payment and then for any reason does not attend any part of the next semester or term at the University will be given a full refund of tuition and fees. The $15 admission (matriculation) payment required of new students is not refundable. A student called into military service before completion of a semester will be given a pro rata refund of tuition and fees provided that he receives no academic credit for the work of that semester. If academic credit is given, there will be no refund. A student who is suspended or expelled from the University for disciplinary reasons forfeits all rights to a refund.

Refund Schedule.

Regular Term

a. Within the first two weeks from the beginning of semester or term (Registration Day) 80%
b. During the third week 60%
c. During the fourth week 40%
d. During the fifth week 20%
e. After the fifth week .....no refund

Refunds are based upon the withdrawal date established by the Registrar.

Financial Aid

Financial Aid at the University of Massachusetts at Boston is awarded to those students who cannot provide the full cost of their college education through their own and their families' reasonable efforts. The term "financial aid" is used to include scholarships, grants, long-term loans and part-time employment.

Applications for financial aid should be filed at the same time as the application for admission. The filing of an application for financial aid will have no influence on the decision for admission.

Scholarships.

Commonwealth Scholarships are available for residents of Massachusetts. Only those students in the top 10–25% of their class with above average performance on the College Entrance Examination and a financial need will be considered for scholarships.

Educational Opportunity Grants.

These gift awards are given to academically promising students in accordance with special requirements set by the Higher Education Act of 1965. These grants are designed especially for students of low income families.

Loans.

The major sources for loans are the National Defense Student Loan Fund and the Massachusetts Higher Education Assistance Corporation.

a. National Defense Student Loans are available from the University. A student needing money may borrow up to $1000 per year for five years. No interest is charged and repayment is not expected (1) while the student is a full-time student in college or graduate school; (2) for three years if he enters military service or Peace Corps; (3) for nine months after completion of studies. When repayment is expected there is an interest charge of 3% a year. Repayment may be over a 10-year period if necessary. There are provisions for cancelling all or part of this loan if the student enters the teaching profession.

b. H.E.L.P. Federally guaranteed loans are available through local banks. The Massachusetts Higher Education Assistance Corporation underwrites these loans. Conditions and regulations concerning these loans are similar to those of the National Defense Student Loans. Specific questions and applications should be directed to banks which operate under this program.

Part-time employment.

This employment is available mainly through the College Work-Study Program, part of which is supported by the Federal Work-Study Program, and will be given as part of the financial aid package. This will require eight to 15 hours of work per week for students who need financial aid.

Application procedure.

Two separate steps are required to complete an application for financial aid at the University of Massachusetts at Boston.

a. A pre-Freshman or Transfer student should complete the Financial Aid Application form and return it no later than March 1, or within two weeks if he receives it after February 15.

b. The applicant should obtain from his school's guidance office, a copy of the Parent's Confidential Statement prepared by the College Scholarship Service. The statement should be mailed directly to the Service at the same time the application form is sent to the school. The University of Massachusetts at Boston should be listed under item 13. If the school does not have a copy of the Parent's Confidential Statement, one should be requested from the College Scholarship Service, Box 176, Princeton, New Jersey.

Awards.

The amount of awards is determined by degree of need and may range from $100 to full cost of attending school. A fuller explanation of determination of need is available in the Financial Aid Office.

Announcement of awards will be made by means of an award letter as soon as possible following the applicant's acceptance by the University. Further communication with the Financial Aid Office is unnecessary, as each applicant will receive an answer as soon as a decision has been made.

University Health Services

The medical care provided by the University Health Services is structured primarily for the well-being of the student population at the University of Massachusetts at Boston. The program is student-oriented, and the services offered are those which have a real meaning for the student. The services exist to help minimize loss of student time and energy from educational pursuits for reasons of health. Two registered nurses are on duty from 8:30 a.m. to 5:00 p.m., and both clinical and laboratory facilities are offered. Physicians and psychiatrists are available on an appointment basis, and special consultants are arranged when necessary.

The physical examination and medical history of each student is reviewed by a physician before registration. The University Health Service is aware, therefore, of any pre-existing medical problems which either require medical care or might necessitate a modification of the student's academic or athletic program. All medical records are held in the strictest confidence by the University Health Services.

The Health Services are supported by the Health Services Trust Fund into which each student pays $12 a semester. Students are urged to enroll in the University of Massachusetts/Boston Paige, O'Brion, Russell Student Insurance Plan. This fee entitles the student to extensive but not total hospital services, in-patient physicians' care, out-patient surgical care, accident insurance, etc. Students are covered both on and off the campus for the entire year even if they withdraw from the University. A full description is available at the University Health Services office.

Housing

The University of Massachusetts at Boston is a commuting institution. As such, living arrangements are the sole concern and responsibility of the students and their parents. It is not the policy of the University to assist in housing.

Office of Student Affairs

The Office of Student Affairs includes, either completely or in cooperation with other offices, the following areas:

- Career planning
- Communication with parents
- Counseling
- Cultural events programs
- Discipline
- Financial aid
- Foreign students
- Handicapped students
- Intramural athletics
- Orientation program
- Placement
- Recognized student organizations
- Student activities
- Veterans' affairs

For further details, students are urged to consult the Student Handbook.

Advising

All freshmen will be advised by members of the Board of Advisers; upperclassmen will be advised by faculty members in their major departments. Students who are undecided on a major should consult with a member of the Advising Office staff.

Students' academic folders will be kept in the Advising Office, along with information on requirements, courses and other information pertinent to advising, all of which will be available to faculty members.

The staff of the Advising Office is available to students for general counseling on matters pertaining to their academic work.

For pre-medical and pre-dental counseling, see the course listing of the Natural Sciences Division.

Tutorial Program

The tutorial program provides students with additional skills in critical areas so they may perform at an increasingly higher level. Therefore, two kinds of tutorials are offered: those concentrating on the mechanics of a subject

area and those concentrating on the course materials themselves.

Students or faculty should contact the Advising Office for further information on both types of programs.

Career Planning and Placement

The services of the Career Planning and Placement Office of the University are available to all registered students and alumni.

The principal services provided by this office are:
Individual and small group counseling,
Off-campus part-time employment,
Full-time graduate placement,
Occupational and career information library, and
Graduate school catalogue library.

A program of on-campus recruitment, which will be of service primarily to graduating seniors and alumni, is being established.

All students, regardless of year in school, are encouraged to register with the Career Planning and Placement Office and to share with members of the staff emerging concerns and questions relevant to their future plans.

Grades

Grades shall be reported according to the following letter system. No other interpretation of this letter system shall be authorized.

A — Excellent
B — Good
C — Fair
D — Conditionally Passing-Unsatisfactory
F — Failure
Inc. — Incomplete

The grade of Incomplete shall be reported only when a portion of the assigned or required class work, or the final examination, has not been completed because of the student's serious illness, extreme personal circumstances, or for scholarly reasons at the request of the instructor. If the student's record is such that he would fail the course regardless of the result of the missing work, he shall fail. A student can obtain credit for an Incomplete only by finishing the work of the course within the first two weeks of the following semester. The grade of Incomplete is converted to a failure if the course requirements have not been satisfied by that time. Exceptions to the two-week deadline may be requested from the appropriate agency in cases of protracted illness, critical personal problems, or for scholarly reasons at the request of the instructor. The initiative for removal of the Incomplete grade rests with the student.

An Incomplete on a final grade report is calculated as an F in arriving at a temporary quality point average. When the Incomplete is later converted to a grade, the permanent record is changed and the student is notified.

Once a grade is submitted, it cannot be changed except on approval of the Division Chairman.

Quality Points

Quality points per semester are assigned to course grades as follows: A,4; B,3; C,2; D,1; F,0; these points are then multiplied by the number of course credits to compute the grade average.

Retention and Good Standing

A student below the grade level required for good standing (i.e., on probation) may be on probation his first semester (freshman year), but will receive an academic dismissal if he is on probation the next semester or if he is on probation twice during his sophomore, junior and senior years. *Any* student on probation twice in his sophomore, junior and senior years will receive an academic dismissal.

Readmitted Students: A readmitted student must attain the cumulative average required by the class to which he has been assigned at the time of readmission.

Transfer Students: The former cumulative average of a transfer does *not* carry over to this University; he begins a new cumulative average upon admission. Therefore, the cumulative average for the first semester necessary for retention and good standing is the same as for a freshman (i.e., 1.0 for retention and 1.5 for good standing). However, for all subsequent semesters at UMB the student must attain the cumulative average necessary for the class to which he was assigned.

Any student whose cumulative average falls between the requirement for retention and the requirement for good standing shall be considered on scholastic probation. Academic dismissal is charged as outlined above.

While on scholastic probation students shall not be eligible to hold office in any recognized student organiza-

tion, to represent the University in any sense on or off campus, or to participate in any non-academic extra-curricular activities (including athletic, dramatic, musical and publication activities).

The Committee on Standards and Scholarships shall be charged with modifying, extending, or limiting the restrictions on a student during a period of scholastic probation and determining the limit of its duration, and shall report all such modifications to the Faculty Senate.

Any student whose semester average is below the cumulative average required for retention shall be warned by a statement on the bottom of both his copy and his parents' copy of the grade report. This warning is to indicate that continued below-standard performance will result in failure to graduate or academic dismissal.

A failed course in a subject required for the degree must be repeated. If the failed course is not required, a substitution may be made upon the approval of the student's advisor. Although repeated, the original failed course continues as part of the student's quality point average and course record.

A course once passed may not be repeated for a higher grade.

CUMULATIVE INDEX REQUIRED FOR RETENTION AND GOOD STANDING

Semester	*Credits*	*Cumulative Average Retention*	*Cumulative Average Good Standing*
1	16	1.0	1.5
2	32	1.2	1.6
3	48	1.3	1.65
4	64	1.5	1.7
5	79	1.6	1.75
6	94	1.8	1.8
7	109	1.9	1.9
8	124	2.0	2.0

Course Changes — First Ten Academic Days.

1. Add Period — The student is allowed ten academic days from the beginning of the semester to add, drop, or substitute a course without notation on his record.
2. Add/Drop Procedure — If a student has good reason to drop one course and add another, he may accomplish this in the following order:
   a. Secure a Change of Course card from the Registrar's Office.
   b. Have the instructor of the course to be added certify that space is available in the desired section.
   c. Secure release from the instructor of the course to be dropped.
   d. Submit the completed Change of Course card to the Registrar's Office.
3. Withdrawal — If the student simply wishes to withdraw from a course (within the first ten days) he may do so with his instructor's approval, using the following procedure:

   Obtain a Change of Course card from the Registrar's Office. Obtain the necessary signatures and return the card to the Registrar's Office.

Course Changes — Withdrawal After 10th Academic Day.

1. Withdrawal Period — Within the period of the 11th academic day and up to and including 28 academic days from the beginning of a semester, a student may drop a course subject to minimum load regulations (12 credit hours for matriculated student). The notation of withdrawal on the student's record will be the grade of W which is not computed in the grade point average.
2. Withdrawal Procedure — (11th to 28th academic day) To be properly withdrawn from a course the student must accomplish the following:
   a. Secure a Change of Course card from the Registrar's Office.
   b. Schedule a conference with the instructor of the course involved and his adviser.
   c. Secure recommendations (either positive or negative) from the instructor and the adviser. They should indicate their recommendations on the card next to their signatures. A negative recommendation from either the instructor or the adviser will negate the withdrawal.

3. WF Period — After the 28th academic day a student may not drop a course without having a WF entered on his record. The grade of WF is computed in the cumulative average (0.0 quality points).
4. Awarding of WP — The grade of WP (which is not computed in the cumulative average) is normally awarded only to students who withdraw completely from the University. In cases where extenuating circumstances are present, a WP may be awarded with concurrence of the instructor and the Division involved. If a WF is not to be recorded, the instructor should sign the card and the Division Head must approve the WP. The instructor may wish to note this action by entering a WP in his rank book.

Withdrawal From the University

1. If a student withdraws prior to the date of the first final examination, no grade will be recorded in his permanent record file. The courses in which he was enrolled will be recorded along with his withdrawal date.
   The effective date of withdrawal is that on which all proper forms are completed, signed, and returned to the Registrar.
2. Withdrawal Procedure — To withdraw from the University, the student must do the following:
   a. Consult with a member of the Advising Office staff, who will provide and sign the necessary papers.
   b. Receive clearance from all departments of the University where he may have accrued charges, e.g., Library, Laboratories, Health Services, Treasurer's Office, Student Affairs Office, Book Store. This will clear the student's records so that he may get appropriate refunds and/or transcripts.
   c. Return all forms to the Registrar for final approval.
3. If any charges are outstanding, the student's permanent records will be "frozen" and no transcripts can be issued. Withdrawal papers which are not completed will result in the recording of the grade of F in all courses at the conclusion of the semester.

Change of Major

Any student who has stated a major and wishes to change it should consult first with a member of the Advising Office staff. Upon approval of the change, the departments involved and the Registrar's Office will be notified, and the student will be assigned a new adviser by the new department.

Conduct

The customary high standard of college men and women in honor, self-respect, and consideration for the rights of others constitutes the ideal student conduct. The privileges of the University will be withdrawn from a student at any time if such action is deemed advisable. It should be understood that the University, acting through its President or any administrative officer designated by him, distinctly reserves the right not only to suspend or dismiss students but also to name conditions under which they may remain in the institution. Hazing in the sense of the punishment or humiliation of students is not permitted. The University of Massachusetts at Boston does not authorize or recognize any social fraternities or sororities.

Summer Courses Outside the University

In order to receive credit for summer course work outside the University a student must receive prior authorization from the department concerned for each course to be taken. A Course Authorization form can be obtained from the Registrar's Office; the original to be returned to the Registrar, one copy to be retained by the Department, and one copy to be retained by the student. In general, a grade of B or higher is required for transfer credit in courses which normally could be taken during the regular school year. Permission to accept a grade lower than B can be obtained only from the Department to which the credit is being transferred. It is the student's responsibility to see that a transcript is sent to the Registrar upon completion of the program.

Final Examinations

When the examination schedule is published, any student who finds himself scheduled for two examinations at the same time or for three examinations in one day should report the situation directly to the Registrar.

Attendance

The attendance regulations place the responsibility for class attendance upon the individual student. *He is expected to attend classes regularly and punctually.* The members of the student body are considered sufficiently mature to accept this personal responsibility, and to recog-

nize and accept the consequences of failure to attend. Since freshmen must exercise particular care in this respect and since the faculty recognizes its greater responsibility toward them in the matter of class attendance, it is expected that freshmen, especially, will attend all their classes. The attendance of freshmen and students on probation is subject to special review by the Dean.

Members of the faculty will hold these students responsible for regular attendance at classes. After the second week of the semester, if a student has been absent in any course for twice the number of weekly class hours, the instructor is required to report such absences to the Dean.

It is recommended that all absences due to illnesses be reported to the University Health Services. Although students are expected to deal directly with faculty members, the Health Services will verify dates of absences by telephone, Extension 324, if requested by faculty members.

Any student in good standing absent for more than twenty-five consecutive class days, for health or any other reason, will generally be required to withdraw from all courses that semester.

Honors Programs

Each department offers, for qualified students, an honors program involving in-depth research and the writing and defense of a thesis. Students are generally informed at the end of their Junior year about the specific departmental requirements of the honors program.

Course Load

The normal course load for Freshmen and Sophomores is four courses for 16 credit hours and for Juniors and Seniors, five courses for 15 credit hours. A student with a cumulative grade average of 3.0, or 3.5 in the previous semester, may take an extra course with the permission of his adviser.

A student majoring in a Science who must take laboratory courses of more than 4 credits may assume a load of 18 credits. This is intended especially for Juniors and Seniors who may find it necessary to take three 3-credit courses, a required 4-credit core curriculum course, and a 5-credit laboratory course (or a similar variation) in one semester.

Graduation Requirements

In order to graduate, a student must acquire a total of 124 credits to include:

1. Freshman-Sophomore core curriculum requirements
2. requirements for a major field, and
3. the upperclass distribution requirements.

NOTE: Students who qualify for advanced placement in languages or other 4-credit Freshman-Sophomore courses may graduate with as few as 120 credits.

Basic Core Requirements for Graduation

a. Two semesters of Freshman English; not postponable by anyone.

b. Two semesters of Freshman History. This may be postponed to the Sophomore year by Mathematics and Natural Science majors who are taking a foreign language in their Freshman year.

c. Four semesters of Natural Sciences or Mathematics, not more or less than two in the same department. Two semesters of this requirement may be postponed to the Junior year by Mathematics, Humanities and Social Science majors.

d. Four semesters of one language (or proficiency at the intermediate level). Beginning language courses may be postponed to the Sophomore year by majors in Mathematics and Natural Sciences. In any case, all four semesters must be taken *consecutively*. Students majoring in the Humanities are required to take the equiva-

lent of five semesters of one language (one semester beyond the intermediate level).

e. Two semesters of Sophomore English or one semester of Sophomore English plus a Humanities option which allows the student with his adviser's permission to substitute for English 112 a semester course in Art, Music, Philosophy, or Modern European Literature in Translation. The Humanities option may be postponed to the Junior year by Mathematics and Natural Science majors.

f. Two semesters of introductory (Sophomore) Social Sciences. This may be postponed to the Junior year by Mathematics and Natural Science majors.

Thus, the usual Freshman program is:

English
Foreign language
History
Science or Mathematics
(except for postponements allowed to Mathematics and Natural Science majors)

The usual Sophomore program is:

English
Foreign language
Introductory Social Science (not History)
Science or Mathematics
(except for postponements allowed as outlined above)

Upperclass Distribution Requirements

In addition to the core requirements and the requirements of their major department, students must fulfill a distribution requirement amounting to four semesters of work. These four semesters do not have to be in different departments provided all the conditions listed below are fulfilled:

1. All four semesters must be outside the major *department.*
2. Two must be outside the *division* in which the major falls.
3. Two must be *beyond* the introductory level.
4. One must be in *Humanities* and not used to fulfill basic core requirements. Fifth-semester language courses required of Humanities majors may be used toward satisfying this requirement.

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DIVISION OF HUMANITIES

JAMES RYAN *Acting Chairman of the Division*

ART

Renée M. Arb, Ph.D., Assistant Professor of Art, Acting Chairman of the Department; William Kane, Ph. D., Daniel McCall, Ph.D., Mehrmet Ergene, B.Arch., Andrew Ramage, *M.A., Harold Thurman, M.A., Steven Trefonides, B.A., Part-time Lecturers in Art.*

GRADUATION REQUIREMENTS

Majors in Art History are required to take Art 111 and 112, Art 131 or 132, and a minimum of 8 semester courses, representing at least 3 historical eras, from the following groups A and B:

Group A covers problems in drawing, graphic art, sculpture, and architecture.

Group B includes the exploration of a given style, period, master or group, iconographical problem, or a comparative study of a theme which extends through more than one historical period.

With permission of the Department, honors students may substitute a senior thesis for one or two of the advanced courses.

COURSE OFFERINGS

Art 111 (I) Introduction to the Language of Art
The nature of form, content, technique, and style in painting, sculpture, architecture and graphic arts. Meetings in the local museums alternated with lectures on key problems and masterpieces of art history.
3 hours, 4 credits Staff

Art 112 (II) Introduction to the History of Art
A survey of the major periods and national and individual styles in painting, sculpture, and architecture from antiquity to the 20th century, with analysis of original material in the local museums.
3 hours, 4 credits Staff

Art 131 (I, II), 132 (I, II) Basic Drawing and Design
An introduction to basic materials and techniques.
6 hours, 3 credits Mr. Trefonides, Mr. Thurman

Art 221 (I) The Art of Greece
A general study of Greek art from the geometric through the Hellenistic periods, with the development of sculpture as the central theme.
3 hours, 3 credits Staff
Not offered 1969–1970

Art 222 (II) The Art of Rome
A study of the painting, sculpture, and architecture of Rome and the Provinces from the Republican era to Constantine the Great, with emphasis on the influence of the emperors as a unifying element.
3 hours, 3 credits Staff
Not offered 1969–1970

Art 225 (I) Indian Art and its Influence
A study of the sculpture, architecture and painting of India and their influence in the Far East and Southeast Asia, including an introduction to the religious background of Buddhism and Hinduism.
3 hours, 3 credits
Prerequisite: Art 111 or permission of instructor Mrs. Bush

Art 226 (II) Chinese Painting
A study of the evolution of Chinese painting into a unique art form and its theory and social implications.
3 hours, 3 credits
Prerequisite: Art 111 or permission of instructor Mrs. Bush

Art 227 (I) The Art of Africa
An introduction to the African arts (especially carved figures, masks, rock and wall paintings, textiles and ritual objects) studied in relation to the ethnic background as well as aesthetic expression. Art historical problems within the continent and the impact of African forms on other cultures of the 19th and 20th centuries.
3 hours, 3 credits Staff
Not offered 1969–1970.

Art 231 (I) Advanced Drawing
Advanced life drawing; advanced perspective; problems in making drawings with compositions containing several figures (realistic, abstract, imaginative); imaginary landscape, dream-like mood; experiments with monochromatic wash, tempera, pen and ink, advanced still life drawing; woodcut.
6 hours, 3 credits
Prerequisite: Permission of instructor Staff
Not offered 1969–1970

Art 247 (I) Origins and Development of Western Architecture
The evolution of architecture from its beginnings in Mesopotamia, Egypt and Greece through its development in the Renaissance and Baroque periods with special attention to the relation of man and environment, the articulation of space, and the theory of architectural design.
3 hours, 3 credits
Prerequisite: Art 111 or 112 or permission of instructor Staff

Art 248 (II) Modern Architecture
Problems in the theory of architectural design during the era of Romantic Classicism and the evolution of new potentials in the 19th century with emphasis on the role of technology, new structural solutions, methods of construction and the development of new conceptions of space for contemporary buildings.
3 hours, 3 credits
Prerequisite: Art 111 or permission of the Department Staff

Art 308 (I) Italian Painting, 1400–1520
An exploration of the Renaissance style in painting from its emergence in the art of Donatello, Brunelleschi and Masaccio to its culmination in the golden age of Raphael, Michelangelo and Titian, with reference to contemporary art theory and the social background.
3 hours, 3 credits
Prerequisite: Art 111 or permission of instructor Miss Arb

Art 309 (II) Mannerism in the Visual Arts, 1520–1600
An exploration of the new style developed in Italy in reaction to Raphael's classicism. Form, theory and content in relation to the social crises of the Reformation and Counter-Reformation. Relationship of the psychology of Mannerism to the Modern Age.
3 hours, 3 credits
Prerequisite: Art 111, Art 308 or permission of instructor
Miss Arb

Art 311 (I) Masters of Baroque Painting
A detailed examination of the work of six masters: Caravaggio, Velásques, Poussin, Rubens, Rembrandt and Vermeer.
3 hours, 3 credits
Prerequisite: Art 111 or permission of instructor Mr. Wilson

Art 312 (II) Bernini, Borromini, and Pietro Da Cortona
The impact of Italian High Baroque style and theory on European taste of the 17th and 18th centuries. Origins of the style in the service of the Papacy; northern reaction, seduction of Germany and Austria; final flowering in Venetian ceiling painting and the French Rococo.
3 hours, 3 credits
Prerequisite: Art 111 or permission of the Department
Mr. Wilson

Art 335 (I) Sources of Twentieth Century Painting
A study of Cézanne, Van Gogh and Gauguin, the Symbolists and Art Nouveau and the late 19th century break with the artistic premises of the Renaissance.
3 hours, 3 credits
Prerequisite: Art 111 Mr. Knott

Art 336 (II) Twentieth Century Art
An introduction to the multiple innovations of style, theory, materials and techniques in the art of this century, and to the leading European painters and sculptors. Concentration on the first four decades when cubism, expressionism, fauvism and surrealism were developed.
3 hours, 3 credits
Prerequisite: Art 111 or 335 or permission of the Department
Mr. Knott

Art 341 (I) The Classical Tradition in Western Art
The Greco-Roman tradition in art and philology in periodic reappearances or revivals of classical style and theory from the 12th century through the period of the First Empire in France.
3 hours, 3 credits
Prerequisite: Art 111 or permission of instructor Miss Arb

Art 390 (I) Seminar in Graphic Art
A close examination of original prints designed to develop knowledge of the technical processes (woodcut, engraving, etching, lithography) and their evolution, and to introduce the student to criteria of connoisseurship. Concentration on the leading masters such as Mantegna, Dürer, Rembrandt, Blake and Goya. Meetings will be held in the print rooms of the Fogg Museum and the Boston Public Library.
3 hours, 3 credits
Prerequisite: Art major or permision of the Department
Miss Mongan

CLASSICS

Renata Poggioli, Ph.D., *Assistant Professor of Classics and Acting Chairman of the Department;* Rosemary Barton, M.A., Blaise Nagy, M.A., Constance Richard, M.A., *Instructors in Classics; Gerald J. Sullivan, M.A., Lecturer in Classics.*

GRADUATION REQUIREMENTS

Classics majors are required to take a minimum of 24 credits in Junior-Senior level courses (Literature, Composition, Classics 261–62). Latin concentrators are also required to take at least 1 year of the Greek language.

At the end of Senior year, students majoring in Classics will take a General Examination, both oral and written, covering the field of Greek and Latin Literature.

A student who has earned a cumulative average of B or higher by the beginning of his Senior year may choose to write an Honors Thesis on a subject approved by the instructor. The Honors Thesis will count 6 credits toward fulfillment of requirements.

COURSE OFFERINGS

Latin 111 (I), 112 (II) Elementary Latin
For students who have no creditable training in Latin. Intensive practice in language skills with introductory readings.
3 hours, 4 credits Staff

Latin 121 (I), 122 (II) Intermediate Latin
Review of reading skills. Selective readings in Latin literature.
3 hours, 4 credits
Prerequisite: Latin 112 or equivalent Staff

Latin 231 (I), 232 (II) Latin Literature
Intensive readings of masterpieces of Latin literature, including epic poetry (Virgil), Catullus, and the Elegiacs.
3 hours, 3 credits
Prerequisite: Latin 122 or equivalent Staff

Latin 233 (I), 234 (II) Latin Literature
Intensive study of Ovid's *Metamorphoses* and Tacitus' *Annals*.
3 hours, 3 credits
Prerequisite: Latin 232 or equivalent Staff

Latin 235 (I), 236 (II) Latin Literature
Intensive study of Lucretius' *De Rerum Natura*, Cicero's *The Philosophical Work*.
3 hours, 3 credits
Prerequisite: Latin 232 or equivalent Staff
Not offered 1969–1970

Latin 237 (I), 238 (II) Latin Literature
Horace's *Odes* and *Satires*, and readings in the Roman Theatre, including works by Plautus, Terence and Seneca.
3 hours, 3 credits
Prerequisite: Latin 232 or equivalent Staff
Not offered 1969–1970

Latin 241 (I), 242 (II) Latin Composition
Composition; review of Latin syntax and structure; translations from English and original compositions.
3 hours, 3 credits
Prerequisite: Latin 122 or equivalent Staff

Greek 111 (I), 112 (II) Elementary Greek
Fundamentals of the Greek language.
3 hours, 4 credits
Prerequisite: Latin 122 or equivalent Staff

Greek 121 (I), 122 (II) Intermediate Greek
Continued study of grammar and syntax. Readings include Plato's *Apology* and selections from other dialogues and from Homer's *Iliad*.
3 hours, 4 credits
Prerequisite: Greek 112 or equivalent Staff

Greek 231 (I), 232 (II) Introduction to Greek Literature
A study in Greek literature including the readings of Homer, Plato and the Greek Tragedians.
3 hours, 3 credits
Prerequisite: Greek 121–122 Staff

Classics 261, 262 Honors Thesis
A substantive review of a subject approved by the individual instructor.
6 credits
Prerequisite: Permission of the Department Staff

Classics 331 (I), 332 (II) Greek and Roman Civilizations
A survey of the literature, philosophy and art of Greece and Rome in their historical setting. All readings in English.
3 hours, 3 credits Mrs. Poggioli

ENGLISH

Irvin Stock, Ph.D., *Professor of English and Chairman of the Department;* Mary D. Curran, Ph.D., *Professor of English;* Alfred R. Ferguson, Ph.D., *Professor of English and Chairman of the Humanities Division; Alvan S. Ryan, Ph.D., Professor of English;* Max Bluestone, Ph.D., James H. Broderick, Ph.D., Seymour Katz, Ph.D., John Marvin, M.A., Robert G. Risse, Ph.D., Frederick Willey, Ph.D., *Associate Professors of English;* Mary Lee Allen, Ph.D., Donald Babcock, Ph.D., Adrianne Baytop, Ph.D., Joel Blair, Ph.D., Charles Campbell, Ph.D., Marjorie Collins, Ph.D., Kenneth C. Frederick, Ph.D., James Leland Grove, Ph.D., U. Grant Keener, Ph.D., Charles Knight, Ph.D., Barbara Leondar, Ed.D., Richard McCleary, Ph.D., Duncan Nelson, Ph.D., Louis E. Roberts, Ph.D., Ronald P Schreiber, Ph.D., George Slover, Ph.D., Ralph D. Sturm, Ph.D., James G. Sweeney, Ph.D., Joseph Tribble, Ph. D., *Assistant Professors of English;* Nina Adolph Alonso, M.A., Charles Bowen, M.A., Albert J. Divver, M.A., Roberta Hendrickson, M.A., Linda Hunt, M.A., Monica McAlpine, M.A., Shaun O'Connell, M.A., Theodore Richer, M.F.A., Otto Van Os, M.A., Cornelia Veenendaal, M.A., *Instructors in English;* Mary Anne Ferguson, Ph.D., *Lecturer in English;* Nadya Aisenberg, M.A., Anita Anger, M.A., Floyd Barbour, B.A., John Carey, Ph.D., Christopher Chase, M.A., Muriel Chase, S.T.M., Pauline Clark, M.A., Mary Leonard, M.A., Louise Mendillo, M.A., Rose Moss, B.A., Dorothy Shukri, A.G.S.M., Linda Slotnick, M.A., *Part-time Lecturers in English.*

GRADUATION REQUIREMENTS

Students majoring in English are expected to choose courses that best satisfy their own interests and needs, and to fulfill, in a sequence of their own devising, a minimum requirement of eight English courses above the sophomore level. In planning their programs, English majors must obtain assistance from their departmental advisers; they may also seek the assistance of the officers and associates of the three departmental Conferences.

These Conferences bring together students and faculty with common interests to discuss the department's course offerings and other topics of concern to students of English. Students will be helped by the Conferences to choose courses that best fulfill their own educational objectives. They will also join with the faculty in suggesting to departmental committees new developments in the program of English courses. In addition, each Conference will sponsor lectures and discussions in the area of its own interests. While participation in a Conference is not required, students are strongly recommended to associate with one or more Conference.

Conference I English and American Literature: The Tradition
For students who wish to explore the range and tradition of English and American Literature as they appear in major periods, genres, and writers. Such students should take English 201 and 202 as a preliminary survey of the whole field.

Conference II Special Topics
For students who wish to explore some special topic within the field of English and American literature. Such students will be helped to plan programs which combine courses in the field of their special interest with related courses outside it.

Conference III Creative Writing
For students primarily interested in creative writing. Such students will be helped to plan programs which include, along with creative writing, appropriate courses in literature and criticism. Note that permission of the instructor is required for admission into creative writing courses.

COURSE OFFERINGS

English 010 (I, II) English Composition
Experimental approaches to composition in a limited number of small sections.
3 hours, 3 credits — Staff

English 100 (I) English as a Second Language
The mechanics of written English; selected reading; one written theme a week; individual conferences. Open only to students assigned in advance of registration.
3 hours, no credits — Mr. Van Os

English 101 (I) Great Books and Composition
A Homeric epic, selections from the Bible, classical drama, and additional material from other periods. Emphasis also on principles of effective writing with at least 8 papers required.
3 hours, 4 credits — Staff

English 102 (II) Great Books and Composition
Readings in medieval, Renaissance, and 18th century literature, including Dante and Shakespeare, selections of Renaissance and 18th century poetry, and a work of prose fiction of the 18th century or earlier. Continues the study of writing with at least seven papers required.
3 hours, 4 credits
Prerequisite: English 101 — Staff

English 111 (I, II) Great Books and Composition
An introduction to 19th century English, American and continental literature. Readings include works of Wordsworth, Whitman, Dostoevsky, Hawthorne, and Chekov. Papers required.
3 hours, 4 credits
Prerequisite: English 102 — Staff

English 112 (II) Great Books and Composition
An introduction to English, American and continental literature of the 20th century. Readings include works of Yeats, Eliot, Frost, Joyce, Faulkner, Mann, O'Neill and Brecht. Papers required.
3 hours, 4 credits
Prerequisite: English 111 — Staff

English 201 (I), 202 (II) Introduction to English Literature
An introduction to the major periods, genres, and writers of English literature and to the relationship between literature and social and intellectual history. The first semester covers the period from the Middle Ages to the 18th century; the second semester from the 18th to the early 20th century, with some attention to American writers. Primarily intended for students planning to major in English.
3 hours, 3 credits
Prerequisite: English 111 — Mr. Knight

GROUP I (GENRE COURSES)

English 211 (I, II) Forms of English Poetry to 1700
A close reading of individual poems in relation to poems of like kinds. Includes examples of such forms as the ballad, the song, the pastoral, the sonnet, the epic, and narrative verse.
3 hours, 3 credits
Prerequisite: English 111 — Mr. Broderick, Miss McAlpine

English 212 (I, II) Forms of English and American Poetry Since 1700
A close reading of individual poems in relation to poems of like kinds. Explores the adaptation of traditional poetic forms to changing thematic and stylistic concerns.
3 hours, 3 credits
Prerequisite: English 111 — Mrs. Alonso, Mr. Nelson, Mrs. Veenendaal, Mr. Willey

English 215 (I, II) Forms of English Prose Fiction
A study of the various kinds of English prose fiction, with some attention to their literary and philosophical milieu.
3 hours, 3 credits
Prerequisite: English 111 — Mr. Frederick

English 216 (I, II) Forms of American Prose Fiction
A study of the various kinds of American prose fiction, with some attention to their literary and philosophical milieu.
3 hours, 3 credits
Prerequisite: English 111 — Mr. Grove, Mr. O'Connell, Mr. Tribble

English 219 (I, II) Forms of English Drama to 1700
Reading in the English Drama from its beginnings through the Elizabethan Age with particular attention to the development of such forms as the chronicle play, the miracle play, and the farce.
3 hours, 3 credits
Prerequisite: English 111 — Mr. Sweeney, Mr. Slover

English 220 (I, II) Forms of English and American Drama Since 1700
Consideration of Drama in English since 1700, with reference to earlier dramatic forms and European works where appropriate. Special attention to the variety of techniques uniquely available to the dramatist.
3 hours, 3 credits
Prerequisite: English 111 Mr. Babcock, Mr. Roberts

GROUP II (PERIOD COURSES)

English 275 (I, II) The Medieval Period
The concerns and techniques of Old and Middle English writers including the *Beowulf* and *Gawain* poets, the Wakefield dramatist, Gower, Langland, Chaucer, and Malory.
3 hours, 3 credits Mrs. Collins

English 277 (I, II) The Renaissance
A study of the predominant currents of thought in the Renaissance, and of the works of such writers as More, Lyly, Marlowe, Jonson, Sidney, Wyatt, Surrey and Shakespeare. Supplementary readings from Renaissance criticism.
3 hours, 3 credits Mrs. Mull

English 281 (I, II) The Neo-Classical Period
A study of the chief intellectual and social currents of the Restoration and 18th century and of the works of such writers as Dryden, Swift, Pope, Defoe, Fielding, Johnson, and Burke.
3 hours, 3 credits Mr. Blair, Mr. Marks

English 283 (I, II) The Romantic Period
The literature and leading ideas of English Romanticism, with special emphasis on the poetry and prose of Blake, Wordsworth, Coleridge, Byron, Keats, and Shelley.
3 hours, 3 credits Mr. Ryan, Mr. Stock, Mr. Vitoux

English 285 (I, II) The Victorian Age
Readings in Carlyle, Tennyson, Dickens, Browning, Newman, Arnold, Hopkins, and Pater, whose work will be studied in the context of the literary, intellectual, and social history of the Victorian Age.
3 hours, 3 credits Mr. Broderick, Mr. Ryan

English 287 (I, II) American Romanticism
The growing importance of symbol and ideal in the period from 1836 to 1855. Emphasis on romantic imagination in Poe, Emerson, Thoreau, Hawthorne, and Melville, with readings in the Cambridge school and the minor Transcendentalists.
3 hours, 3 credits Mr. Gittelman, Mr. Van Os

English 289 (I, II) The Rise of American Realism
The emergence of the realistic temper in the poetry of Whitman and its development through Twain, James and Howells into the naturalism of Norris, Crane and Dreiser.
3 hours, 3 credits Mr. Katz, Mr. Tribble

English 291 (I, II) The Modern Period
Readings in the works of Eliot, Hemingway, Lawrence, Joyce, Faulkner, Auden, Thomas, and Lowell.
3 hours, 3 credits Miss Allen, Mrs. Curran, Mr. Keener

GROUP III (MAJOR AUTHORS AND GENERAL TOPICS)

English 303 (I) Early Celtic Literature in Translation
A study of the mythological, heroic and lyric literature of Ireland and Wales in its cultural context, from the earliest written sources through the later middle ages.
3 hours, 3 credits
Prerequisite: English 111 Mr. Bowen

English 304 (II) Medieval Poetry
English poetry from 700 to 1500.
3 hours, 3 credits
Prerequisite: English 111 Miss McAlpine

English 305 (I) Chaucer
The Canterbury Tales and selected minor works.
3 hours, 3 credits
Prerequisite: English 111 Mr. Risse

English 312 (II) Renaissance Poetry
The poetry of Spenser, Sidney, Shakespeare, Marlowe, and others.
3 hours, 3 credits
Prerequisite: English 111 Mrs. Veenendaal

English 313 (I) Shakespeare's Plays: A Survey
The comedies, early histories, and early tragedies of Shakespeare.
3 hours, 3 credits
Prerequisite: English 111 Miss Baytop, Mr. Bluestone, Mr. Slover

English 314 (II) Shakespeare's Plays: A Survey
Continuation of English 313: the later histories, problem plays, major tragedies, and late romances.
3 hours, 3 credits
Prerequisite: English 111 Miss Baytop, Mr. Bluestone, Mr. Slover

English 319 (I) Elizabethan and Stuart Drama
The major plays of the period, with emphasis on the relationships between dramatic form and theatre conventions and conditions. Special attention to Marlowe, Jonson, Webster, Middleton and Ford.
3 hours, 3 credits
Prerequisite: English 111 Mr. Sweeney

English 322 (I) English Poetry of the Early Seventeenth Century
Divergent traditions in 17th century poetry, with emphasis on the "schools" of Donne and Jonson. Poets include Donne, Herbert, Vaughan, Marvell, Jonson, Merrick, Waller and Carew.
3 hours, 3 credits
Prerequisite: English 111 Mr. Chernaik

English 325 (II) Seventeenth Century Prose
The development of 17th century prose in light of intellectual and aesthetic preoccupations of the period. Authors include Bacon, Donne, Browne, Hobbes, Milton, and Dryden.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 326 (II) Milton
The major poetry and prose of John Milton.
3 hours, 3 credits
Prerequisite: English 111 Mr. Hoopes

English 337 (II) Eighteenth Century Fiction
The historical emergence of the novel and aesthetic characteristics of the form in the works of early masters Richardson, Fielding, Smollett, Sterne and Austen
3 hours, 3 credits
Prerequisite: English 111 Mr. Knight

English 339 (I) Blake
Readings in lyrics and prophecies of William Blake.
3 hours, 3 credits
Prerequisite: English 111 Mr. Schreiber

English 342 (II) Victorian Poetry
Includes works of Tennyson, Browning, Arnold, Hopkins, and Hardy.
3 hours, 3 credits
Prerequisite: English 111 Mr. Broderick, Mr. Ryan

English 347 (II) Nineteenth-Century English Prose Fiction
Major English novelists of the 19th century including the Brontes, George Eliot, Dickens, Thackeray, Meredith, and Hardy.
3 hours, 3 credits
Prerequisite: English 111 Mr. Willey

English 352 (II) Modern American Poetry
Major trends and figures in 20th century American poetry, from the Imagist movement and the founding of *Poetry* in 1912 to the present. Emphasis on Frost, Eliot, Pound, Williams, Stevens, Cummings, Lowell, Roethke, Wilbur, and Dickey.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 357 (II) Modern American Fiction
Major American novelists from about 1890 to the present. The art of Crane, Dreiser, Wharton, Dos Passos, Hemingway, Fitzgerald, Faulkner, and West, including recurrent social and cultural themes in their works.
3 hours, 3 credits
Prerequisite: English 111 Mr. Grove, Mr. Sturm, Mr. Willey

English 358 (II) Black Literature in America
Examination of the historical and social context from which American Nego writing emerged, and of works by authors including Johnson, Hughes, Wright, Ellison, Baldwin, Brooks, Tolson, and Jones.
3 hours, 3 credits
Prerequisite: English 111 Mr. Johnson

English 359 (II) Modern Drama
Development of naturalism, impressionism, and the tradition of the New Theatre in 19th and 20th century drama. Continental, English and American plays.
3 hours, 3 credits
Prerequisite: English 111 Mr. Babcock, Mr. Roberts

English 360 (I) Mid-Twentieth Century Drama
A study of the ideas, values and techniques of the contemporary theatre.
3 hours, 3 credits
Prerequisite: English 111 Mr. Babcock, Mr. Roberts

English 361 (I) Irish Literature
Leading figures of the Irish Renaissance, with special emphasis on Joyce, Yeats, Synge, and O'Casey.
3 hours, 3 credits
Prerequisite: English 111 Mrs. Curran

English 362 (I) Post World War Two Comic Fiction
A study of the art and the vision of contemporary life of such post-war comic novelists as Bellow, Roth, Donleavy and Nabokov.
3 hours, 3 credits
Prerequisite: English 111 Miss Allen

English 365 (I) Faulkner
Faulkner's fiction studied as a major saga of modern man.
3 hours, 3 credits
Prerequisite: English 111 Mr. Marvin

English 370 (I) Drama Workshop
Drama studied not only as literature but also in actual production; students will be involved in presenting one or more plays to the University community.
3 hours, 3 credits
Prerequisite: English 111 and permission of instructor
Mr. Roberts

English 374 (II) Principles and Methods of Literary Criticism
Principal methods of literary criticism (formalistic, historical, sociological, archetypal, mythic, and psychological) in relation to several works of literature.
3 hours, 3 credits
Prerequisite: English 111 Mr. Sturm

English 375 (I) History of the English Language
Development of the English language from its beginnings to the present; selected passages of British and American writing and speech; concepts and techniques of descriptive linguistics.
3 hours, 3 credits
Prerequisite: English 111 or permission of instructor Mrs. Collins

English 376 (II) History of Prose Style
Characteristics of literary and oral English prose styles from Middle English to the present.
3 hours, 3 credits
Prerequisite: English 111 Staff

English 381 (I), 382 (II) Selected Topics in English and American Literature
Intensive study of topics in literature; course content will vary yearly and will be announced during pre-registration periods.
3 hours, 3 credits
Prerequisite: English 111 Staff

GROUP IV (WRITING)

English 250 (I), 251 (II) Creative Writing
Examination of techniques and forms of fiction and poetry. Classroom discussion of student manuscripts and frequent conferences.
3 hours, 3 credits
Prerequisite: Permission of instructor Mr. Marvin, Mr. Richer, Mrs. Veenendaal

English 252 (I) Advanced Composition
Techniques of effective expository writing.
3 hours, 3 credits
Prerequisite: English 111 Mr. O'Connell

English 253 (I), 254 (II) Creative Writing Workshop
The structuring of chapters of a short novel, the thematic relationship in a series of stories or poems, and development of style and point of view.
3 hours, 3 credits
Prerequisite: Senior standing and permission of instructor Mr. Marvin

GROUP V (SENIOR SEMINARS)

English 390 (I), 391 (II) Senior Seminars
In-depth study of a special topic, varying each semester, from the field of British, American or European literature. Classes limited to 15.
3 hours, 3 credits
Prerequisite: Senior standing and permission of instructor Staff

ENGLISH COURSE FOR TEACHER CERTIFICATION

English 386 (I, II) Teaching of Secondary School English
A study of the issues and principles of the learning and teaching of secondary school composition, literature, and language. Supervision and critique of practice teaching in the schools.
3 hours, 20 hours laboratory (practice teaching), 6 credits
Prerequisite: 6 hours Education courses Mr. Campbell
(SEE ALSO Literature Courses listed under Humanities Division Courses.)

FRENCH

John MacCombie, Ph.D., *Associate Professor of French and Chairman of the Department;* Michel Philip, Agrege des lettres, Alfred Proulx, Ph.D., *Associate Professors of French;* Rose Abendstern, Ph.D., Frederick Busi, Ph.D., Mary Lee Evans Kimball, D.E.U., Jean-Claude Lebensztejn, Agrege des lettres, Betty McIlvain, Ph.D., *Assistant Professors of French;* Gerald Volpe, Ph. D., *Assistant Professor of French and Italian;* Josette Betkoune, D.E.S., Sciences Economiques, Livia Calice, Cand. Phil., Claudine Hunting, D.E.S., d'Anglais, Marilyn Sorenson, M.A., Monique Stern, M.A., Christian Taconet, M.A., Brian Thompson, M.A., Lilian Willens, M.A., *Instructors in French;* David Buskey, B.A., Jacqueline Foure DeSuze, D.E.S., *Lecturers in French;* Alan Berger, M.A., Jean-Marie Piemme, Agregation, *Part-time Lecturers in French.*

GRADUATION REQUIREMENTS

French majors must take a minimum of 30 credits in Junior-Senior level courses in French. All majors are required to take French 241–42, and are urged to elect it in the Sophomore year.

It is strongly recommended that majors elect 2 years of course work in a second foreign language.

Honors Thesis: a student may receive 6 credits toward his total 30 major credits for acceptable work on an Honors Thesis written in French under the direction of an adviser from the French faculty.

At the end of the Senior year, majors must take a comprehensive exam in French, covering 3 specific fields of French literature (the 3 fields to be chosen at the option of the student), but will be expected to have some knowledge of the course and direction of French literature in general. At the beginning of the Junior year, a reading list will be supplied to the student as a guide for the exam. The exam will total 1 hour oral and 4 hours written.

Students should take the ETS (Educational Testing Service) Language proficiency exams in the spring of their Senior year.

COURSE OFFERINGS

French 111 (I), 112 (II) Elementary French
Intensive practice in the four language skills, with an audio-lingual approach, for students who have no creditable training in French.
5 hours, 2 hours laboratory
4 credits each semester Miss Sorenson and Staff

French 115 (I) Basic Oral French
Extensive oral practice and drill of basic linguistic patterns in French for students who need them to qualify for Intermediate French.
5 hours, 4 credits
Prerequisite: Background in the language and placement exam Miss Sorenson and Staff

French 121 (I, II), 122 (I, II) Intermediate French
An intensive review and further study of grammar and audio-lingual skills with correlated intermediate-level readings in French literature.
4 hours, 2 hours laboratory, 4 credits
Prerequisite: French 112 or equivalent Mrs. McIlvain and Staff

French 231 (I, II) Survey of French Literature
French literature and culture from the 11th Century through the mid-18th Century.
3 hours, 3 credits
Prerequisite: French 122 or equivalent Mr. Philip and Staff

French 232 (I, II) Survey of French Literature
French literature and culture from the mid-18th Century through the mid-20th Century.
3 hours, 3 credits
Prerequisite: French 122 or equivalent Mr. Philip and Staff

French 241 (I, II), 242 (I, II) Traduction, Stylistique et Explication de Texte
Composition, problems of translation, methods of literary analysis, and idiomatic translations based on contemporary French, English, and American texts.
3 hours, 2 hours laboratory
3 credits each semester
Prerequisite: French 122 or equivalent, or permission of instructor Mr. Lebensztejn and Staff

French 261 (I) Modern French Novel in Translation: 1900–1935
Works by Proust, Cocteau, Gide, Saint-Exupèry and Malraux.
3 hours, 3 credits
Prerequisite: English 111 or permission of instructor Mr. Proulx

French 262 (II) Modern French Novel in Translation: 1935 until the present
Works by Sartre, Camus, Mauriac, Robbe-Grillet and Genet.
3 hours, 3 credits
Prerequisite: English 111 or permission of instructor Mr. Proulx

French 300 (I) Histoire de la Langue Française
Survey of the evolution of French from spoken Latin to the modern language with analysis of texts from each major period.
3 hours, 3 credits
Prerequisite: French 232 or 241 or equivalent, or permission of instructor Staff

French 301 (II) La Littérature française au Moyen Age
Survey of French literature from the 11th Century to the 15th, according to genres. All texts (including the *Chanson de Roland, Lancelot, Tristan et Iseut, Roman de Renard,* and lyric poetry) adapted into modern French.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Volpe

French 311 (I) La Renaissance française: L'Age de Rabelais
Chronological survey of French literature in the 16th Century, with particular emphasis on continuity with the Middle Ages, consciousness of the New Age, and Italian influence. Readings from Marot, Rabelais, Calvin, Scève, Labé, Marghérite, d'Angoû lème, DuBellay, Ronsard until 1660.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mrs. McIlvain

French 312 (II) La Renaissance française: L'Age de Montaigne
Readings from Ronsard après 1660, Larivey, Garnier, Montaigne, Sponde, D'Aubigné.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Volpe

French 321 (I) La Littérature du 17e Siècle: Théatre et Philosophes
Works from 17th Century authors including Descartes, Corneille, Racine, Molière, and Pascal.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Philip

French 322 (II) La Littérature du 17e Siècle: Prose et Poésie
Works by Bossuet, Boileau, La Fontaine, Madame de La Fayette, La Rochefoucauld, Madame de Sevigné, La Bruyère.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Mr. Philip

French 331 (II) Théatre et Roman du 18e Siècle
Plays by Marivaux and Beaumarchais, and novels by Voltaire, Diderot, J. J. Rousseau, Laclos.
3 hours, 3 credits
Prerequisite: French 232 or 242 or permission of instructor Staff

French 332 (I) La Pensée philosophique du 18e Siècle
Philosophical texts by Montesquieu, La Mettrie, Voltaire, Rousseau, Condillac; *l'Encyclopédie.*
3 hours, 3 credits
Prerequisite: French 232 or 242 or permission of instructor Staff

French 341 (I) Le Romantisme français: Préromantisme et Poésie romantique
Chateaubriand and Romantic poets including Lamartine, Hugo, Vigny, Musset, Nerval.
3 hours, 3 credits
Prerequisite: French 232 or 242 or permision of instructor Miss Abendstern

French 342 (II) Le Romantisme français: Théatre et Roman romantiques
The French Romantic theatre and novel through reading and discussion of works by Hugo, Vigny, Musset, Sand, Balzac, Stendhal.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Miss Abendstern

French 345 (I) La Poésie symboliste
Works selected from the poetry of Beaudelaire, Verlaine, Rimbaud, and Mallarmé.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor
Mr. MacCombie

French 346 (II) La Poésie contemporaine
Works by Claudel, Apollinaire, Aragon, René Char, Frances Ponge, Valery, St. Jean de Perse.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permision of instructor
Mr. MacCombie

French 348 (I) Le Roman français: 1850–1900
Novels by Flaubert, Fromentin, Les Goncourt, Maupassant, Zola, Huysmans.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor
Mr. Busi

French 351 (I) Le Théatre francais au 20e Siècle
Plays by Jarry, Claudel, Giraudoux, Sartre, Camus, Ionesco, Genet.
3 hours, 3 credits
Prerequisite: French 232 or 242, or permission of instructor Staff

French 353 (I) Le Roman moderne: 1900–1935
Works by Proust, Fournier, Radiguet, Cocteau, Colette, Gide, Mauriac, Green and Saint-Exupéry.
3 hours, 3 credits
Prerequisite: French 232 or 242 or permission of instructor Staff

French 354 (II) Le Roman moderne: 1935 jusqu'au présent
Works by Céline, Sartre, Camus, de Beauvoir, Mauriac, Robbe-Grillet, Genet, and Pinget.
3 hours, 3 credits
Prerequisite: French 232 or 242 or permission of instructor Staff

French 358 (II) La Littérature noire d'expression française
Selected prose and poetry of representative black authors in French-speaking countries, focusing on the works of Senghor, Césaire, Damas, Camara, and Laye.
3 hours, 3 credits
Prerequisite: French 231 or 241 or permission of instructor Staff

French 362 (II) L'Education vue par les Ecrivains français
Readings and discussion of French texts relative to pedagogic and educational theory from authors including LaSalle, Montaigne, Rabelais, and Rousseau.
3 hours, 3 credits
Prerequisite: French 232 or 242 or permission of instructor
Mr. Volpe

French 371 (I) Sèminaire: La Littérature fantastique au 19e Siècle
Works by Nodier, Balzac, Lautrémont, Barbey d'Aurevilly, Villiers de l'Isle-Adam.
3 hours, 3 credits
Prerequisite: Permission of instructor Mr. Philip

French 372 (II) Séminaire: Les Avants-Gardes au 20e Siècle
Works by Proust, Roussel, Breton, Artaud, Beckett, Ponge, Blanchot.
3 hours, 3 credits
Prerequisite: Permission of instructor Staff

French 373 (I) Séminaire: L'Existentialisme
Readings and discussion of works by Gide, Malraux, Camus, Sartre, de Beauvoir, Beckett, and Céline as they reveal existentialist concepts and their development.
3 hours, 3 credits
Prerequisite: French 231 or 241 or permission of instructor
Mr. Proulx

French 374 (II Séminaire: La Littérature française dans la tradition catholique: 1880–1930
The novel, theater, and poetry of Bourget, Barrés, Péguy, Claudel, Martin du Gard, Bernanos, and Mauriac with emphasis on the manner in which Catholic religious beliefs—generally considered essential to the literary formation of these authors—are reflected and differentiated in the development of their works.
3 hours, 3 credits
Prerequisite: French 232 or 242 or permission of instructor
Mr. Busi

GERMAN

Alfred Hoelzel, Ph.D., *Associate Professor of German, Chairman of the Department;* Robert C. Spaethling, Ph.D., *Professor of German;* Luise Bronner, Ph.D., Lynn F. Dhority, Ph.D., David H. Miles, Ph.D., Frederick P. Ott, Ph.D., *Assistant Professors of German;* Andrew Boelcskevy, M.A., Sandra Shuman, B.A., Arnold Ulbrich, M.A., *Instructors in German.*

GRADUATION REQUIREMENTS

German majors must take a minimum of 24 credits in Junior-Senior level courses, including History of the German Language and German 221–22. A course in History of Germany, given by the History Department, is also required. Second semester Seniors will be given an oral and written exam. The written exam will cover primarily the reading list to be assigned to all majors.

Note: The German Department strongly encourages all majors in German to achieve a solid background in a second field, preferably in an area within the Humanities, or in European History, or in Politics. The extent to which this is possible will be directly related to the amount of creditable prior training in German which a student offers upon entrance to the Department.

COURSE OFFERINGS

German 111 (I), 112 (II) Elementary German
For students with no creditable training in German. Intensive practice in the four language skills, with an audio-lingual approach.
4 hours; 2 hours laboratory
4 credits each semester Staff

German 121 (1), 122 (II) Intermediate German
Intensive review of grammar and further development of all four language skills.
4 hours, 4 credits each semester
Prerequisite: German 112 or equivalent Staff

German 221 (I), 222 (II) Advanced German Composition and Conversation
Grammar and stylistics. Oral and written essays.
3 hours, 3 credits each semester
Prerequisite: German 122 Mr. Boelcskevy (I), Mr. Spaethling (II)

German 231 (I), 232 (II) Introduction to German Literature
Reading of representative masterpieces of German prose, drama and poetry from the Enlightenment to the present day. Works will be discussed in cultural and historical context. Short papers required.
3 hours, 3 credits
Prerequisite: German 122 or equivalent
Mr. Miles (I), Miss Shuman, Mr. Ulbrich (II)

German 241 (I), 242 (II) Introduction to German Civilization
Readings in German history, politics, philosophy, science, literature and art. Recommended for students who need a fifth-semester course to fulfill language core requirements.
3 hours, 3 credits
Prerequisite: German 122 Miss Bronner, Miss Shuman, Mr. Miles
Not offered 1969–1970.

German 251 (I) Modern German Literature in Translation
Selected masterpieces of modern German literature, including Mann, Hesse, Kafka and Brecht. German majors may not take this course for credit.
3 hours, 3 credits
Prerequisite: English 111 Mr. Spaethling
Not offered 1969–1970

German 301 (I), 302 (II) Age of Goethe
German literature covering the period from 1750 to 1830, from Enlightenment through Romanticism.
3 hours, 3 credits
Prerequisite: German 232 or 242 Mr. Dhority

German 331 (I) German Literature from Naturalism to Expressionism
German literature in the late 19th and early 20th Centuries.
3 hours, 3 credits
Prerequisite: German 232 or 242 Mr. Hoelzel

German 332 (II) German Literature from the end of World War I to present
German literature in the Weimar Republic: Mann, Hesse, Kafka, Brecht, Duerrenmatt and Grass.
3 hours, 3 credits
Prerequisite: German 232 or 242 Mr. Dhority

German 341 (I) German Drama from Lessing to the Present
Selected major German dramas beginning with Lessing's *Minna von Barnhelm* and ending with *Soldaten* by the contemporary writer Rolf Hochhuth. Discussions from the viewpoint of theater as well as literature.
3 hours, 3 credits
Prerequisite: German 232 or 242 Mr. Spaethling

German 362 (I, II) History of the German Language
The development of the German language.
3 hours, 3 credits Staff

German 386 (II) Senior Honors Seminar in German
A critical investigation of literary themes or genres or of one major literary figure. The writing and defense of a research paper required. Required of all seniors wishing to graduate with Honors in German.
Seminar, 3 credits
Prerequisite: Senior standing; German major and/or permission of the Department Staff

ITALIAN

Gerald Volpe, Ph.D., *Assistant Professor of French and Italian;* Antonio F. Carrara, M.A., Adolph Caso, M.A., Eleanor Perkins, M.A., *Instructors in Italian.*

COURSE OFFERINGS

Italian 111 (I), 112 (II) Elementary Italian
For students who have had no training in Italian. Intensive practice in the four language skills, with an audio-lingual approach.
4 hours; 2 hours laboratory
4 credits each semester Staff

Italian 121 (I), 122 (II) Intermediate Italian
An intensive review and further study of reading skills, with correlated readings in Italian literature.
4 hours, 4 credits each semester
Prerequisite: Italian 112 or equivalent Mr. Carrara

Italian 231 (I), 232 (II) Introduction to Italian Literature
A survey of the principal authors and masterpieces of Italian literature from its origins to the 20th Century.
3 hours, 3 credits
Prerequisite: Italian 122 or equivalent Mr. Volpe

Italian 301 (I) Dante's Comedy
A close reading of the three *Cantiche* of the supreme work in the Italian language.
3 hours, 3 credits
Prerequisite: Italian 231–232 or permission of instructor
Mr. Volpe

MUSIC

Nicholas Tawa, M.A., *Assistant Professor of Music and Acting Chairman of the Department;* John Huggler, B.M., *Assistant Professor of Music.*

COURSE OFFERINGS

Music 000 (I, II) Chorus
3 hours, 1 credit

Music 111 (I, II) Introduction to Music
Basic music materials, principles of design, and the cultural significance of representative works in historical sequence.
3 hours, 4 credits Mr. Huggler

Music 121 (I) Basic Ear Training and Theory Skills
Harmony, melody, and music theory.
3 hours, 4 credits
Prerequisite: Permission of instructor Mr. Huggler

Music 231 (I) Development of Chamber Music
Selected works from Haydn to Schonberg, centering chiefly on the medium of string quartet.
3 hours, 3 credits
Prerequisite: Music 111 or equivalent Mr. Huggler

Music 241 (I) 19th Century American Music
The growth and development of American music to the year 1900 (Charles Ives) in both its rural-folk and its urban aspects.
3 hours, 3 credits Mr. Tawa

Music 242 (II) 20th Century American Music
The present day ferment in American music, and the gradual emergence of American composers of international stature.
3 hours, 3 credits Mr. Tawa

Music 251 (II) History and Development of Jazz in America
The development of jazz from its origin to the present.
3 hours, 3 credits
Prerequisite: Music 111 or permission of instructor Mr. Huggler

Music 281 (II) Music in the 20th Century
The various directions taken by music since 1900.
3 hours, 3 credits
Prerequisite: Music 111 Mr. Huggler

PHILOSOPHY

Geoffrey Clive, Ph.D., *Associate Professor of Philosophy;* Harold Bronk, S. T. B.., Richard Horak, M.A., Timothy Robinson, M.A., *Instructors in Philosophy;* Michael Martin, Ph.D., *Part-time Lecturer in Philosophy.*

COURSE OFFERINGS

Philosophy 200 (I) Introduction to Philosophy
An introductory examination of the problems and scope of philosophy.
3 hours, 4 credits Staff

Philosophy 201 (I) Ancient and Medieval Philosophy
Classical philosophy from pre-Socratic philosophers through Plato and Aristotle. The central issue of medieval philosophy as represented by the ideas of St. Augustine and St. Thomas Aquinas on reason and revelation, the status of universals, and proofs of God's existence.
3 hours, 4 credits
Prerequisite: Sophomore option, Junior standing, or permission of instructor Staff

Philosophy 204 (II) Introduction to Logic
Examination of the forms of valid reasoning, deductive and inductive, and of their role in reflective thinking. Discussion of the functions of language, informal fallacies, the syllogism, and other types of formal argument, methods of science and modern views of the nature of logic and its relation to other fields.
3 hours, 4 credits
Prerequisite: Sophomore option, Junior standing, or permission of instructor Staff

Philosophy 205 (I) Ethical Theory
Introduction to the main problems and theories of the nature, scope, and validation of value judgments related to moral actions. Readings from representative, traditional, and contemporary philosophers.
3 hours, 4 credits
Prerequisite: Sophomore option, Junior standing, or permission of instructor Staff

Philosophy 208 (I) Contemporary Philosophy
The major philosophical movements of the 20th century, including pragmatism, naturalism, logical empiricism, analytic philosophy, existentialism, phenomenology.
3 hours, 3 credits
Prerequisite: Philosophy 201, 204, or 205 Staff

Philosophy 232 (II) Major Current of 19th Century Thought
A consideration of German Idealism, Dialectical Materialism, Utilitarianism, Existentialism, Pragmatism and Vitalism.
3 hours, 3 credits
Prerequisite: Philosophy 201, 204, or 205 Staff

Philosophy 234 (II) Modern Philosophy
Emphasis on the views of the Continental Rationalists (Descartes, Spinoza, Leibniz) and the British Empiricists (Locke, Berkeley, Hume) in relation to general intellectual developments from the Renaissance to the Enlightenment.
3 hours, 3 credits
Prerequisite: Philosophy 201, 204, or 205 Staff

Philosophy 245 (I) Theory of Knowledge
A philosophical consideration of knowledge: its nature, forms, methods, scope, and validation.
3 hours, 3 credits
Prerequisite: Philosophy 201, 204, or 205 Staff

Philosophy 246 (II) Philosophy of Science
An examination of the nature of scientific explanation, with attention to the social and philosophical consequences of scientific achievement.
3 hours, 3 credits
Prerequisite: Philosophy 201, 204, or 205 Staff

Philosophy 247 (I) Problems in Metaphysics
An in-depth examination of key ideas as they appear in several major metaphysical systems.
3 hours, 3 credits
Prerequisite: Philosophy 201 or 234 Staff

Philosophy 251 (I) Plato
A comprehensive study of the dialogues of Plato, with particular attention to their ethical, metaphysical and epistemological reflections and arguments.
3 hours, 3 credits
Prerequisite: Philosophy 201, 204, or 205 Staff

Philosophy 262 (II) The Critical Philosophy of Immanuel Kant
A detailed study of Kant's major work, *The Critique of Pure Reason,* with special attention to his epistemology and critique of metaphysics
3 hours, 3 credits
Prerequisite: Philosophy 201, 204, or 205 Staff

Philosophy 280 (II) Social and Political Philosophy
An introduction to representative problems and themes of social and political philosophy, especially the concepts of human rights, liberty, justice, equality, law, social obligation, and the social contract.
3 hours, 3 credits
Prerequisite: Philosophy 201, 204 or 205 Staff

Philosophy 281 (I) Philosophy of Education
An examination of philosophical ideas and concepts relevant to the nature and aims of education.
3 hours, 3 credits Staff

Philosophy 291 (I) Existentialism
An examination of major forces and concepts in the development of existentialism.
3 hours, 3 credits
Prerequisite: Philosophy 201 or 205 or permission of instructor
Mr. Clive

RUSSIAN

David Edsall, M.A., Anny Newman, M.A., *Instructors in Russian.*

COURSE OFFERINGS

Russian 111 (I), 112 (II) Elementary Russian
For students who have had no previous training in Russian. Development of the four language skills, with an audio-lingual approach.
4 hours, 2 hours laboratory
4 credits Staff

Russian 121 (I), 122 (II) Intermediate Russian
Intensive review of grammar. Continued practice in speaking, writing and listening.
4 hours, 4 credits
Prerequisite: Russian 112 or equivalent Staff

Russian 221 (I), 222 (II) Russian Literature in Translation
Modern Russian literature, concentrating on prose, from 1800 to the present. All reading in English.
3 hours, 3 credits
Prerequisite: English 102 or permission of instructor Staff

Russian 231 (I), 232 (II) Introduction to Russian Literature
Reading of selected classics of 19th and 20th century Russian literature, combined with written and oral work.
3 hours, 3 credits
Prerequisite: Russian 122 Mrs. Newman

SPANISH

James Ryan, Ph.D., *Associate Professor of Spanish and Chairman of the Department;* Luis Soto, Ph.D., *Visiting Professor of Spanish;* Nellie Sanchez-Arce, Ph.D., *Associate Professor of Spanish;* Luis Ricardo Alonzo, Ph.D., Rosalind Cohen Gabin, Ph.D., Maria-Luisa Osorio, Ph.D., Adornia Walia, Ph.D., *Assistant Professors of Spanish;* Hilton Hall, M. A. T., Maria Luisa Roberts, B.S., *Instructors in Spanish;* Jose de Jesus Barba-Martin, M.A., *Part-time Instructor in Spanish;* Lourdes E. Alvarez, B.A., *Lecturer in Spanish;* Silvia Baralt, M.A., Ivonne Buck, Ed. M., *Part-time Lecturers in Spanish.*

GRADUATION REQUIREMENTS

Spanish majors are required to take Spanish 241–42, and at least 8 additional semesters of advanced courses, including 2 semesters of Latin-American Literature and 1 semester of Cervantes (Spanish 334).

Majors who plan to go into high school teaching are advised to take Advanced Composition and Conversation and Applied Linguistics (Linguistics for teachers).

Majors who plan to go on for a higher degree in Spanish are advised to take 2 semesters of Golden Age Literature, with at least 1 semester in the Comedia (drama).

Second semester Seniors must take a comprehensive examination in Spanish covering 3 specific fields of Hispanic Literature (the 3 fields to be chosen by the student). Majors will also be expected to have a general knowledge (literary history, movements, etc.) of Hispanic Literature. In addition, students may receive 6 credits towards their total of 24 major credits for acceptable work on an Honors Thesis written under the direction of an adviser from the Spanish faculty.

COURSE OFFERINGS

Spanish 111 (I), 112 (II) Elementary Spanish
For students who have no creditable training in Spanish. An intensive study of the four language skills based on an audio-lingual approach.
4 hours, 2 hours laboratory
4 credits Staff

Spanish 121 (I), 122 (II) Intermediate Spanish
An oral review and further study of the language skills with readings in Spanish and Latin-American literature and culture.
4 hours, 4 credits
Prerequisite: Spanish 112 or equivalent Staff

Spanish 231 (I), 232 (II) Introduction to Spanish and Latin-American Culture
Selected readings in the literature and culture of the Hispanic world. Oral reports and papers based on the readings.
3 hours, 3 credits
Prerequisite: Spanish 122 or equivalent Staff

Spanish 241 (I), 242 (II) Survey of Spanish Literature
Intensive reading of masterpieces of Spanish literature. Written and oral reports required.
3 hours, 3 credits
Prerequisite: Spanish 122 or equivalent, and permission of instructor Staff

Spanish 251 (1) Advanced Spanish Grammar
An intensive study of Spanish grammar and syntax with emphasis on written exercises, themes, and papers.
3 hours, 3 credits
Prerequisite: Spanish 122 or equivalent Staff

Spanish 252 (II) Spanish Composition and Conversation
Intensive work in written and oral Spanish: weekly themes and frequent oral reports and speeches. Although Advanced Spanish Grammar is not a prerequisite, 252 is planned as a continuation of the work of Spanish 251.
3 hours, 3 credits
Prerequisite: Spanish 122 or equivalent Staff

Spanish 321 Spanish Civilization
Studies in Spanish history, art, architecture, and music as a background for literature; readings, discussions, papers.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered alternate years

Spanish 322 Spanish-American Civilization
Major aspects of the cultural evolution of the Spanish-American countries from pre-Hispanic days to the present.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered alternate years

Spanish 331 Poetry of the Golden Age
Selections include Garcilaso, Gongoro, Herrera, Fray, Louis de Leon, San Juan de la Cruz, Lope de Vega, and Quevedo.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered alternate years

Spanish 332 Golden Age Prose
Selections from various forms of Spanish prose such as picaresque, pastoral, and Moorish novel, or moral, mystical, and satiric prose.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered alternate years

Spanish 333 Golden Age Theater
Selections include Alarcon, Calderon, Cervantes, Lope de Vega, Tirso de Molina.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered alternate years

Spanish 334 Cervantes
An intensive study of the works of Cervantes with special emphasis on *Don Quixote*.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered yearly

Spanish 335 The Picaresque Novel
An intensive study of the major picaresque novels of the 16th and 17th centuries: *Lazarillo de Tormes, Guzmán de Alfarache, La Vida de Buscon,* and others.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered every three years

Spanish 341 Nineteenth Century Poetry and Theater
Selections of poetry and theatrical works of both the Romantic and Realistic periods.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 342 Nineteenth Century Prose
Selections from custombristic writers such as Larra and Masonero Romanos, and novelists such as Alarcon, Galdós, Pereda and Valero.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 343 Galdós
Selected works of Spain's greatest modern novelist.
3 hours, 3 credits
Prerequisite: Spainsh 242 Staff
Offered every three years

Spanish 351 The Generation of 1898
Selections from Azorín, Machado, Pio Baroja, Valles-Inclan, and others.
3 hours, 3 credits
Prerequisite: Spainsh 242 Staff

Spanish 352 Twentieth-Century Spanish Literature
Selections by pre-Civil War writers include Garcia-Lorca, Gomez de la Serna, Guillen, Jimenez, Miro, Ortega, Perez de Ayala, and Salinas.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered alternate years

Spanish 353 Contemporary Spanish Literature
Selections from Blas de Otero, Cela, Gironella, Laforet, Matute, and others.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered alternate years

Spanish 361 Spanish Literature before 1500
Readings from El Cid through the *Celestina,* including such works as *Libre de Buen Amor, El Conde Lucanor,* romances, and the poetry of El Marqúes de Santillana, Jorge Manrique and others.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff

Spanish 371, 372 Survey of Spanish-American Literature
Masterpieces from the Colonial period to the 20th century examined against the background of historical events, social pressures, and European literary movements.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered alternate years

Spanish 373 Contemporary Spanish-American Novel
Extensive readings in the great works of contemporary Spanish-American prose. Concentrates on the major themes of man against nature, man against society, "indigenismo", "criollismo".
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered alternate years

Spanish 374 Studies in Contemporary Essays and Poetry of Spanish America
Extensive readings in the great works of modern poetry and essays of Spanish America.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered alternate years

Spanish 375 Modernism
Modernist writers beginning with Rubén Darío and including poetry and prose of both Spain and Spanish America.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered every three years

Spanish 381 Studies in Spanish Literature
In-depth study of special topics or individual authors; topics will vary from year to year.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered alternate years

Spanish 382 Studies in Spanish-American Literature
In-depth study of special topics or individual authors; topics will vary from year to year.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered alternate years

Spanish 391 History of the Spanish Language
The phonological, syntactic, and semantic developments of Common Romance which have led to the structures of Old and Modern Spanish.
3 hours, 3 credits
Prerequisite: Spanish 242 Staff
Offered alternate years

DIVISIONAL COURSES IN HUMANITIES

Classics 331 (I), 332 (II) Greek and Roman Civilizations
A survey of the literature, philosophy and art of Greece and Rome in their historical setting. In English. See Department of Classics.
3 hours, 3 credits Mrs. Poggioli

French 261 (I) Modern French Novel in Translation: 1900–1935
Works by French writers, 1900 to 1935.
3 hours, 3 credits
Prerequisite: English 111 or permission of instructor Mr. Proulx

French 262 (II) Modern French Novel in Translation: 1935 to the present
Works by French writers from 1935 to the present day.
3 hours, 3 credits
Prerequisite: English 111 or permission of the instructor
Mr. Proulx

German 251 (I) Modern German Literature in Translation
Translated representative selections from major modern German authors. See Department of German.
3 hours, 3 credits
Prerequisite: English 111 or permission of instructor
Mr. Spaethling

Humanities 243 (I) Mythology and Literature
Classical, Celtic and other myths and their persistence and transformation in subsequent literature.
3 hours, 3 credits
Prerequisite: English 111 Miss Baytop

Humanities 245 (I) The Tradition of Western Drama
The intents, designs, and techniques of the drama of the Western World, from the classic Greek to the contemporary European and American theatre. Emphasis on the cultural environment of each of the major periods and locales of the drama and the relation of the theatre to its public.
3 hours, 3 credits
Prerequisite: English 111 Mr. Roberts

Humanities 247 (II) Readings in European Fiction
The art and the thought of major European novelists, including Dostoevsky, Tolstoy, Flaubert, Stendhal, Gide, Mann, and Kafka.
3 hours, 3 credits
Prerequisite: English 111 Mr. Stock

Humanities 252 (II) History and Art of the Film
An introduction to the art of the film, including the viewing and analysis of representative experimental, documentary and feature films, reading in the literature of the film, critical papers, and a project in film production.
3 hours, 3 credits
Prerequisite: Junior-Senior standing; permission of instructor
Mr. Risse

Humanities 254 (I, II) Romanticism in its European Context
The development of Romanticism in Europe.
3 hours, 3 credits
Prerequisite: English 111 Staff

Humanities 261 (I) African Literature
A survey of contemporary African writing in English-speaking countries, examining the traditional literary methods in the light of the African experience. Includes such writers as Wole Sovinka, Chinua Achebe, Ezekial Mphahlele, Nadine Gordimer, Alan Paton, and Doris Lessing.
3 hours, 3 credits
Prerequisite: English 111 Mr. Senna

Humanities 386 (I, II) Teaching of a Secondary School Foreign Language
The issues, principles, and methods of secondary school foreign language teaching. Supervision and critique of practice teaching.
3 hours, 20 hours laboratory; 6 credits
Prerequisite: 6 hours Education courses Staff

Russian 221 (I), 222 (II) Russian Literature in Translation
Russian literature from 1800 to the present. See Department of Russian.
3 hours, 3 credits
Prerequisite: English 102 or permission of instructor Staff

DIVISION OF MATHEMATICS

TAFFEE T. TANIMOTO, *Chairman of the Division*

MATHEMATICS

Taffee T. Tanimoto, Ph.D., *Professor of Mathematics and Chairman of the Division;* Alfonso G. Azpeitia, Ph.D., *Professor of Mathematics;* Herbert Kamowitz, Ph.D., Juan C. Merlo, Ph.D., John J. Miller, Ph.D., Geza Schay, Jr., Ph.D. *Associate Professors of Mathematics;* Ernest P. DuBois, Ph.D., Joan D. Lukas, Ph.D., John A. Lutts, Ph.D., Stephen K. Parrott, Ph.D., Lazaro Recht, Ph.D., So-Fei Wei, Ph.D., *Assistant Professors of Mathematics;* Carl Cohen, M.A., Leonard Faltz, M.A., M. Colin Godfrey, M.A., Marie Lynch Hermann, M.A., Joseph F. Russell, M.A., Dennis Wortman, B.S., *Instructors in Mathematics;* Alberto Baider, Licenciate, Noel Carrere, B.S., Vera Widder, Ph.D., *Part-time Lecturers in Mathematics.*

GRADUATION REQUIREMENTS

The B.A. degree with a major in Mathematics will be awarded upon the satisfactory completion of the core requirements, of which the Science requirement must be Physics 111 and 112, and Math 105, Math 106, Math 150, Math 151 and 8 courses beyond the Math 151 level. Mathematics majors should start with Math 105 in their Freshman year.

NOTE: Mathematics credits are not required for graduation except for majors in those departments stipulating otherwise.

COURSE OFFERINGS

NOTE: Prerequisite for all Math courses is preferably 2 years of Algebra and 1 year of Plane Geometry.

Math 100 (I, II) Liberal Arts Mathematics I
An historical-cultural survey of the main areas of mathematics. Emphasizes the interplay of these areas with man's philosophic, artistic, commercial, and scientific pursuits.
3 hours, 4 credits Staff

Math 101 (I, II) Liberal Arts Mathematics II
A primarily descriptive survey of several areas of mathematics. Stresses understanding through concrete examples. Topics include elementary number theory, elementary finite group and non-Euclidean geometry and how they relate to the physical world.
3 hours, 4 credits Staff

Math 102 (I, II) Finite Mathematics
For non-science or non-mathematics majors. Topics include elementary set theory; combinations, permutations and other "counting" formulas; discrete probability theory; random variables and their distributions.
3 hours, 4 credits Staff

Math 103 (I, II) Pre-Calculus Mathematics
For students who desire to enter the Calculus sequence.
3 hours, 4 credits Staff

Math 104 (I, II) Survey of Calculus
Calculus developed intuitively and applied to problems in geometry, physics, and probability. A terminal course for non-Science and non-mathematics majors.
3 hours, 4 credits Staff

Math 105 (1, II) Calculus I
The first in the Calculus sequence of courses for science and mathematics majors. Starts with the basic concepts of functions and limits. Topics include derivatives and their applications and definite and indefinite integrals with application to geometrical and physical problems, discussing simple algebraic and transcendental functions.
3 hours, 4 credits
Prerequisite: Math 103 or equivalent Staff

Math 106 (I, II) Calculus II
A continuation of Math 105. Topics are integration, applications of the integral, sequences and series.
3 hours, 4 credits
Prerequisite: Math 105 or equivalent Staff

Math 150 (I, II) Calculus III
An introduction to linear algebra with applications to matrix differential and integral operators, sequences and series, partial differentiation and application to multivariate calculus and geometry.
3 hours, 4 credits
Prerequisite: Math 106 or equivalent Staff

Math 151 (I, II) Differential Equations and Allied Topics
Linear differential equations of the first and second order, general theory of linear differential equations, matrix equations and physical applications.
3 hours, 4 credits
Prerequisite: Math 150 or equivalent Staff

Math 152 (I, II) Linear Algebra I
Vectors, vector spaces, matrices, linear and bilinear mappings. Numerical aspects of matrix inversion and the associated eigenvalue and eigenvector determinations.
3 hours, 4 credits
Prerequisite: Math 106 or equivalent Staff

Math 153 (I, II) Linear Algebra II
Groups, rings, polynomials, differential and integral linear operators; an introduction to inner product spaces, exterior forms and multilinear algebra.
3 hours, 4 credits
Prerequisite: Math 152 Staff

Math 201 (I) Advanced Calculus I
Implicit function theorem, multiple integration, vector calculus, Green's Theorem, Stokes' Theorem.
3 hours, 3 credits
Prerequisite: Math 151 Staff

Math 202 (II) Advanced Calculus II
Continuous functions, convergence, differentiability, measure and integration, and various superficial aspects of real variable theory.
3 hours, 3 credits
Prerequisite: Math 201 Staff

Math 203 (I) Abstract Algebra I
Sets on logic, integers and congruences, lattices, finite groups.
3 hours, 3 credits
Prerequisite: Math 151 Staff

Math 204 (II) Abstract Algebra II
Rings, fields, vector spaces and quadratic forms, structure of groups, and introduction to multilinear algebra.
3 hours, 3 credits
Prerequisite: Math 203 Staff

Math 205 (I) Probability and Statistics I
An introduction to statistical concepts, central limit theorem, elementary measure, finite and continuous probability.
3 hours, 3 credits
Prerequisite: Math 151 Staff

Math 206 (II) Probability and Statistics II
Stochastic processes and time series analyses.
3 hours, 3 credits
Prerequisite: Math 205 Staff

Math 251 (I) An Introduction to Real Analysis
Real numbers, topology of reals, infinite series, continuity, Weierstrass approximation, differentiation, integration, power series and orthonormal systems.
3 hours, 3 credits
Prerequisite: Math 202 Staff

Math 252 (II) An Introduction to Complex Analysis
Complex numbers, complex functions, power functions, trigonometric functions, Moebius transformations. Differentiation and integration of analytic functions, Cauchy's Theorem, residues, series and singularities and meromosphic functions.
3 hours, 3 credits
Prerequisite: Math 202 Staff

Math 253 (I) Topics in Geometry I
Topics in classical Euclidean and non-Euclidean geometrics, projective geometry, lattices and finite geometrics.
3 hours, 3 credits
Prerequisite: Math 153 or 204 Staff

Math 254 (II) Topics in Geometry II
An introduction to classical differential geometry with corresponding modern algebraic approaches leading to an introduction to Riemannian geometry. Techniques involve tensor analysis and multilinear algebra.
3 hours, 3 credits
Prerequisite: Math 204 Staff

Math 255 (I) Mathematical Logic
Formal theories, consistency, completeness, decidability, Godel's incompleteness theorem for first order arithmetic (Peano number theory). Introduction to axiomatic set theory, ordinal numbers and cardinal numbers.
3 hours, 3 credits
Prerequisite: Math 151 Staff
Not offered 1969–1970

Math 260 (II) Elementary Mathematics from an Advanced Standpoint
Required for Math secondary teaching certification; also satisfies methods course required by Massachusetts for teaching. Advanced plane geometry and application with generalized interpretations of elementary high school topics. Algebraic topics such as symmetric functions, cyclic groups and algebraic number fields and their extensions, and classical standard problems, e.g., duplication of the cube, trisection of an angle and squaring the circle.
3 hours, 3 credits
6 credits with 20 hours practice teaching
Prerequisite: Math 151 and 6 hours Education courses Staff

Math 262 (I) Topology
Topological spaces, convergence and continuity, compactedness and connectedness properties; introduction to Homotopy theory and combinatorial topology.
3 hours, 3 credits
Prerequisite: 1 semester of Advanced Calculus Staff

Math 264 (I, II) Numerical Analysis
Approximations of roots, finite differences, interpolation, numerical solutions of differential equations and algebraic equations. Students will have access to computer terminal.
3 hours, 3 credits
Prerequisite: Math 151 Staff

Math 290 (I) Readings in Mathematics
Advanced level study of various topics according to individual interests. Open only to those students who have proven capabilities in mathematics.
3 hours, 3 credits
Prerequisite: Permission of the Department Staff

DIVISION OF NATURAL SCIENCES

ERNEST I. BECKER, *Acting Chairman of the Division*

BIOLOGY

Lawrence Kaplan, Ph.D., *Professor of Biology and Chairman of the Department;* Herbert Lipke, Ph.D., Nevin Weaver, Ph.D., *Professors of Biology;* John A. Freeberg, Ph.D., *Associate Professor of Biology;* Ruth R. Bennett, Ph.D., Martha Bethell, Ph.D., Stuart W. Bradford, Ph.D., Bettina Harrison, Ph.D., Thomas Joseph, M.S., Christine Kibel, Ph.D., Stanley Krane, Ph.D., Lorraine Larison, Ph.D., Elizabeth Low, Ph.D., Fuad M. Safwat, Ph.D., John H. Schultz, Ph.D., Edna Seaman, Ph.D., Claire Van Ummersen, Ph.D., Francois Vuilleumier, Ph.D., *Assistant Professors of Biology;* Richard Stone, M.A., Wesley N. Tiffney, M.S., *Instructors in Biology;* Patricia Brennan, M.S., Priscilla E. Doff, B.S., Katherine D. Hecksher, M.S., Shirley L. Maina, M.S., Eleanor P. Murphy, M.A., Sarah L. Page, M.S., *Lecturers in Biology.*

GRADUATION REQUIREMENTS

Biology majors must choose either Track 1 (those who plan to enter secondary teaching with a bachelor's degree or who do not now plan graduate or professional work), or Track 2 (those who plan graduate or professional studies).

All majors are required to take Biology 101–102, Chemistry 103–104, one year of Introductory Physics, two years of Advanced Biology (211–212, 241–242, 271–272, or 371–372) and one year of mathematics (preferably Math 105–106, especially for Track 2 majors).

In addition, Track 1 majors must take one year of other advanced Biology, and Track 2 majors, one year of Organic Chemistry. Most Track 2 majors are advised to choose Biology 371–372 instead of 271–272, and to elect Physical Chemistry.

COURSE OFFERINGS

Biology 101 (I), 102 (II) General Biology
An integrated course stressing the principles of biology. Life examined at the molecular, cellular, organismal and population level and structure considered in relation to function or biological principles. Emphasis on evolution as the major unifying principle of biology.
3 hours, 1 hour discussion, 2 hours laboratory, 4 credits Staff

Biology 211 (I), 212 (II) Biology of Organisms
The major group of protists, plants and animals studied to elucidate the principles of reproduction, growth, development, maintenance, integration and responses to the environment.
3 hours, 6 hours laboratory, 5 credits
Prerequisite: Biology 101, 102 Staff

Biology 213 (I), 214 (II) Biology of Organisms Lecture
The lecture portion of Biology 211–212. Designed as an elective for students not majoring in Biology.
3 hours, 3 credits
Prerequisite: Biology 101–102 Staff

Biology 241 (I), 242 (II) Biology of Populations
Populations considered from the standpoint of genetic mechanisms, probability and population genetics, relationship to the environment, taxonomy and evolution.
3 hours, 6 laboratory hours, 5 credits
Prerequisite: Biology 102 Staff

Biology 243 (I), 244 (II) Biology of Populations Lecture
The lecture portion of Biology 241–242. Designed as an elective for students not majoring in Biology.
3 hours, 3 credits
Prerequisite: Biology 102 Staff

Biology 271 (I), 272 (II) Cell Structure and Function
Cells studied to elucidate the chemical basis of life, energy transformations, biosynthesis, the molecular basis of inheritance, control mechanisms in cell function, the specialization of cells and their integration in tissues.
3 hours, 6 laboratory hours, 5 credits
Prerequisite: Biology 102, Chemistry 102 or 104. Prerequisite or corequisite: Biology 211–212, 241–242 Staff

Biology 273 (I), 274 (II) Cell Structure and Function Lecture
The lecture portion of Biology 271–272. Designed as an elective for students not majoring in Biology.
3 hours, 3 credits
Prerequisite: Biology 102, Chemistry 102 or 104 Staff

Biology 350 Summer Program in Field Biology
Lectures, field trips and individual research in field biology with emphasis on the deductive ecology of Nantucket Island.
6 weeks, 6 credits
Prerequisite: Permission of instructors Staff

Biology 351 (I, II) Topics in Biology
Detailed examination of a narrow field of biology. Several topics may be offered each semester.
1 hour, 1 credit
Prerequisite: Permission of instructor Staff

Biology 371 (I), 372 (II) Biology of Cells
A rigorous course covering the physical and chemical basis of the universe and of life, energy transformations, biosyntheses, and the molecular basis of inheritance, control of cell functions, cell structure and specialization, communication and exchange of materials between cells and integration of tissues.
3 hours, 6 hours laboratory, 5 credits
Prerequisite: Biology 101–102. Prerequisite or corequisite: Chemistry 153–154 or 155–156, Physics 101–102 or 111–112 Staff

Biology 373 (I), 374 (II) Biology of Cells Lecture
The lecture portion of Biology 371–372.
3 hours, 3 credits
Prerequisite: Biology 102, Chemistry 154 or 156, Physics 102 or 112 Staff

Biology 386 (II) Practice Teaching of Biology
Supervision and critique of practice teaching in the secondary schools.
1 hour in addition to practice teaching
3 credits
Prerequisite: Admission to the Teacher Certification Program and 6 hours of prescribed education courses Staff

Biology 391 (I), 392 (II) Honors in Biology
Laboratory or library research under the guidance of a faculty advisor, resulting in a thesis presented to the Biology staff.
1 to 3 credits
Prerequisite: Honor standards, senior standing, permission of honors committee Staff

CHEMISTRY

Ernest I. Becker, Ph.D., *Professor of Chemistry and Chairman of the Department;* J.-P. Anselme, Ph.D., Walter J. Lehmann, Ph.D., Thomas N. Margulis, Ph.D., Lowell Schwartz, Sc.D., Chi-Hua Wang, Ph.D., *Associate Professors of Chemistry;* Robert I. Gelb, Ph.D., Peter A. Hurwitz, Ph.D., Joseph E. Knoll, Ph.D., Daniel A. Laufer, Ph.D., Walter E. Weibrecht, Ph.D., Leverett J. Zompa, Ph.D., *Assistant Professors of Chemistry;* Kenneth Cerny, B.S., Paul A. Keaveney, M.S., Frederick W. Snyder, Jr., B.S., *Lecturers in Chemistry.*

GRADUATION REQUIREMENTS

Chemistry majors will take a basic group of courses in chemistry, mathematics and physics which will satisfy usual requirements appropriate to preprofessional training in chemistry or teaching or to certain interdisciplinary fields of study.

All majors in chemistry are required to take Chemistry 103–104, 153–154, 213–214, 351, 370; Mathematics 105–106; and Physics 112. Students intending graduate study in chemistry should select German or Russian to fulfill their language requirement and should take four courses among advanced chemistry courses, physics beyond 112, or mathematics beyond 106. Also, such students are strongly urged to take Thesis 397–398. Students with interest in the life sciences, including medicine, may select appropriate biology courses and/or biochemistry. Students interested in the teaching certification program should begin their teacher training courses in the junior year as part of their distribution options.

COURSE OFFERINGS

Chemistry 101 (I) Chemical Science I
First semester of a one year introductory course for non-science majors. The basic principles of atomic structure, molecular structure and chemical change. Topics include atomic theory, the periodic table, chemical bonding and thermochemistry. Laboratory work includes preparation and analysis of natural materials.
2 hours lecture; 1 hour recitation;
3 hours laboratory alternate weeks
4 credits Mr. Margulis, Mr. Weibrecht and Staff

Chemistry 102 (II) Chemical Science II
Systematic descriptive chemistry and the chemistry of biological substances.
2 hours lecture; 1 hour recitation;
3 hours laboratory alternate weeks
4 credits
Prerequisite: Chemistry 101
Mr. Margulis, Mr. Weibrecht and Staff

Chemistry 103 (I) Chemical Principles I
Introduction to the fundamental principles of chemistry including structure, the periodic table of the elements, chemical bonding and molecular structure, states of matter based on kinetic theory, chemical kinetics, equilibria, and elementary thermodynamics. Laboratory work an introduction to methods of quantitative chemical techniques.
2 hours lecture; 1 hour recitation;
6 hours laboratory
5 credits Mr. Knoll, Mr. Zompa and Staff

Chemistry 104 (II) Chemical Principles II
Introduction to electrochemistry, oxidation-reduction reactions, acid-base systems, and a survey of the chemical properties of elements based on principles already introduced. Laboratory work presents qualitative and quantitative analysis.
2 hours lecture; 1 hour recitation;
6 hours laboratory; 5 credits
Prerequisite: Chemistry 103 Mr. Knoll, Mr. Zompa and Staff

Chemistry 153 (I), 154 (II) Organic Chemistry
An intensive survey of the synthesis and properties of the main classes of organic compounds including mechanistic discussions of their reactions. Laboratory illustrates the preparation, purification and identification of organic compounds by classical experimental methods with an introduction to modern purification, analytical and instrumental techniques.
3 hours; 3 hours laboratory
4 credits
Prerequisite: Chemistry 104 Mr. Anselme

Chemistry 155 (I), 156 (II) Introduction to Organic Chemistry
A survey of the synthesis and properties of the main classes of organic compounds including mechanistic discussions of their reactions. Special topics in natural products and processes. Laboratory same as Chemistry 153–154. Primarily for Biology majors.
3 hours; 3 hours laboratory; 4 credits
Prerequisite: Chemistry 104 Mr. Becker

Chemistry 213 (I), 214 (II) Physical Chemistry
A lecture course in the fundamental theories and laws of physical chemistry. Topics include states of matter, thermodynamics, chemical equilibria, phase equilibria, the structure of matter and chemical kinetics.
3 hours, 3 credits
Prerequisite: Chemistry 104, Math 106, Physics 112;
Chemistry 213 before 214 Mr. Schwartz

Chemistry 217 (I) Physical Chemistry for Biology Majors
Principles of physical chemistry for advanced work in Biology and Biochemistry. Emphasis on equilibrium processes based on thermodynamic fundamentals and on the principles of rate processes.
3 hours, 3 credits
Prerequisite: Chemistry 104, Physics 102 or 112, Mathematics 105
NOTE: Credit cannot be received for both Chemistry 213–214 and Chemistry 217. Staff

Chemistry 223 (I), 224 (II) Physical Chemistry Laboratory
A laboratory course designed to illustrate the principles introduced in Chemistry 213–14 and to provide practice in modern methods of physics-chemical experimental measurement.
6 hours, 2 credits
Corequisite: Chemistry 213–14 Mr. Hurwitz

Chemistry 351 (I) Organic Qualitative Analysis
Theory and practice in organic compound separation and identification employing classical and instrumental methods.
1 hour lecture, 6 hours laboratory, 3 credits
Prerequisite: Chemistry 154 or 156 Staff

Chemistry 354 (II) Introductory Biochemistry
Structure, chemistry and metabolism of nucleic acids, proteins and carbohydrates.
3 hours, 3 credits
Prerequisite: Chemistry 154 or 156 or equivalent Mr. Laufer

Chemistry 355 (I) Topics in Organic Chemistry
Senior-level discussion of selected topics in organic chemistry.
3 hours, 3 credits
Prerequisite: Chemistry 154
Corequisite: Chemistry 351 (to be offered in 1969–70; in 1967–68 was incorporated in Chemistry 153–54)
Mr. Anselme, Mr. Becker, Mr. Laufer

Chemistry 361 (I) Analytical Instrumentation
Principles and use of instrumental methods in analysis. Topics in electronics, electro-chemistry, spectroscopy, flamephotometry, mass spectrometry, NMR.
3 hours; 3 hours laboratory; 4 credits
Prerequisite: Chemistry 214 Mr. Gelb

Chemistry 370 (II) Inorganic Chemistry
Discussion of the fundamental principles of modern inorganic chemistry.
2 hours; 4 hours laboratory; 4 credits
Prerequisite or corequisite: Chemistry 104, 154, 214 and 224
Mr. Weibrecht, Mr. Zompa

Chemistry 371 (II) Topics in Physical Chemistry
Topical discussions, each based on elementary principles studied in Chemistry 213–214 and progressing toward recent developments in the field.
3 hours, 3 credits
Prerequisite: Chemistry 214 Staff

Chemistry 395 (I), 396 (II) Advanced Laboratory in Chemistry
Special laboratory topics in chemistry.
12 hours laboratory, 4 credits
Prerequisite: Chemistry 214 Staff

Chemistry 397 (I), 398 (II) Senior Thesis in Chemistry
Original investigation by the student under the guidance of a faculty advisor. An oral resumé before the Chemistry staff is required.
12 hours laboratory, 4 credits
Prerequisite: Chemistry 214 Staff

PHYSICS

Marvin M. Antonoff, Ph.D., *Associate Professor of Physics and Acting Chairman of the Department;* Donald H. Lyons, Ph.D., George Salzman, Ph.D., *Professors of Physics;* Harold P. Mahon, Ph.D., D.V.G.L.N. Rao, Ph.D., *Associate Professors of Physics;* Freda Salzman, Ph.D., *Part-time Associate Professor of Physics;* Leonard A. Catz, Ph.D., Edward S. Ginsberg, Ph.D., Martin Posner, Ph.D., Nareshchandra P. Shah, Ph.D., John Shane, Ph.D., *Assistant Professors of Physics;* Rafael Kalish, Ph.D., Rungsri Kritayakirana, M.S., Paul Sagalyn, Ph.D., Benjamin D. Silverman, Ph.D., Herman Winick, Ph.D., *Part-time Lecturers in Physics.*

GRADUATION REQUIREMENTS

Option A is intended primarily for students who plan to pursue graduate studies in a physical science; Option B is intended primarily for students who have broader interests (less physics specialization at the Bachelor degree level), e.g., for those who plan to teach in precollege programs. Election of Option B will not preclude a professional career in physics; however, a somewhat longer period of graduate study will normally be required than in the case of Option A.

Option A requires Physics 211, 212, 322, 350, 422, 4 credits of laboratory courses at the level of 281 or higher, of which 2 credits must be taken from 381 or 382, and 1 elected course selected from those courses numbered 300 or higher; and one semester of an approved mathematics course beyond Mathematics 151. Students interested in this option are advised to begin their mathematics courses and preferably also physics in the freshman year.

Option B requires 32 credit hours in physics courses, including Physics 211, 212, 321, and 4 credits of laboratory courses at the level of 281 or higher, of which 2 credits must be taken from 381 or 382 and Mathematics 150. The student may offer up to 9 credit hours in approved cognate courses in the natural sciences or mathematics in lieu of physics electives.

NOTE: Students who plan graduate work in physics are advised to acquire a facility in reading at least one of the following languages: French, German, or Russian.

COURSE OFFERINGS

Physics 101 (I), 102 (II) Concepts of Modern Physics
Topics and problems of modern physics, with emphasis on the physical concepts, the experimental aspects, and their interrelation. Use of the historical approach to illustrate the role of the scientific method in the evolution of physical theories. Discussion of astrophysics, elementary particle physics, nuclear physics, and solid state physics.
2 hours lecture; 2 hours recitation; 1 hour laboratory
4 credits Mr. Salzman and Staff

Physics 111 (I) Fundamentals of Physics I
The fundamental areas of physics covered in an integrated development of classical and modern concepts. Mathematical methods for the solution of problems. Subjects include mechanics, special relativity, thermodynamics, heat and kinetic theory.
3 hours lecture; 2 hours recitation;
$2\frac{1}{2}$ hours laboratory alternate weeks
5 credits
Prerequisite or corequisite: Mathematics 105 Mr. Lyons and Staff

Physics 112 (II) Fundamentals of Physics II
Subjects include electricity, magnetism, and elementary wave motion, including topics in sound and light. Introduction to the quantum nature of light and wave aspects of particles.
3 hours lecture; 2 hours recitation;
$2\frac{1}{2}$ hours laboratory alternate weeks
5 credits
Prerequisite: Physics 111
Prerequisite or corequisite: Mathematics 106 Mr. Lyons and Staff

Physics 121 (I), 122 (II) Introduction to Astronomy
Descriptive introduction to astronomy and astrophysics. Includes study of the planets, stars, galaxies, physics of space exploration and life on other worlds.
3 hours, 4 credits
Prerequisite: 2 semesters of physical science or permission of instructor Staff

Physics 211 (I) Introduction to Contemporary Physics
Wave motion; electromagnetism and light; atomic physics and elements of quantum mechanics; introduction to elementary particle physics, nuclear physics, and solid state physics.
3 hours, 3 credits
Prerequisite: Physics 112
Prerequisite or corequisite: Mathematics 150 or permission of instructor Mr. Shane

Physics 212 (II) Mechanics
Principles of Newtonian mechanics, conservation laws, gravitational potential theory and conservative fields, central forces, oscillatory systems, rigid-body rotation, and relativistic mechanics.
3 hours, 3 credits
Prerequisite: Physics 211 or permission of instructor; Mathematics 150 Mr. Shane

Physics 281 (I), 282 (II) Physical Laboratory
Basic principles of experimental physics and error analysis. Experiments in mechanics, heat, optics, electricity, magnetism, atomic and nuclear physics.
4 hours laboratory alternate weeks for each credit, 1–2 credits
Prerequisite: Physics 102 or 112, or permission of instructor Mr. Shah

Physics 321 (I) Theory of Electricity and Magnetism (I)
Basic concepts of electric magnetic fields: electrostatics, magnetostatics, electric currents, electromagnetism; development of Maxwell's equations and simple applications, physical optics: reflection, dispersion, polarization and diffraction.
3 hours, 3 credits
Prerequisite: Mathematics 150
Prerequisite or corequisite: Physics 212 or permission of instructor Mr. Ginsberg

Physics 322 (II) Theory of Electricity and Magnetism (II)
Description of the phenomena of electricity and magnetism in mathematical terms: boundary value problems and boundary conditions, transmission lines, wave guides, radiation from a moving charge; special relativity.
3 hours, 3 credits
Prerequisite: Physics 321, Mathematics 151 Mr. Ginsberg

Physics 350 (I) Statistical Physics
Topics in heat, thermodynamics, kinetic theory and elementary statistical mechanics.
3 hours, 3 credits
Prerequisite: Physics 212 or permission of instructor
Mr. Antonoff

Physics 361 (I) Electronics
The fundamentals of electronics, including d.c. and a.c. circuit analysis, vacuum tube circuits, transistors, amplifiers, oscillators and pulse and digital circuits.
3 hours, 3 credits
Prerequisite: Physics 112 Staff

Physics 381 (I), 382 (II) Intermediate Laboratory
Experiments in geometrical and physical optics, electronics, atomic physics, nuclear physics. Individual program of experiments for each student according to his interests and previous experience.
4 hours laboratory alternate weeks for each credit, 1–4 credits
Prerequisite or corequisite: Physics 321 Mr. Posner

Physics 421 (I) Atomic Physics and Introductory Quantum Mechanics
The fundamentals and elementary applications of quantum mechanics with emphasis on physical content rather than formalism. Elementary wave mechanics developed and applied to simple atomic structure. Topics include spectroscopic and other phenomena which form the experimental basis of modern atomic physics; the role of the Pauli principle and spin in determining periodic atomic properties; radiation phenomena.
3 hours, 3 credits
Prerequisite: Physics 212 or permission of instructor Staff

Physics 422 (II) Nuclear and Particle Physics
The basic properties of nuclei, particle scattering, radioactivity, nuclear stability, dynamics of nuclear reactions, potential well and barrier problem in quantum mechanics, particles.
3 hours, 3 credits
Prerequisite: Physics 421 Staff

Physics 430 (II) Introduction to Solid State Physics
An introductory treatment of the physics of solids.
3 hours, 3 credits
Prerequisite: Physics 350 and 421 Mr. Antonoff

Physics 481 (I), 482 (II) Advanced Laboratory
Experimental work in a variety of fields selected to meet the needs of the student.
6 hours laboratory, 3 credits
Prerequisite: Physics 381 or permission of instructor
Mr. Mahon and Staff

PREMEDICAL PROGRAM

Students interested in a career in the medical profession should check Premedical Requirements under both Biology and Chemistry in the Division of Natural Sciences.

Students who demonstrate interest in and ability for a medical career should register with the Premedical Committee at the start of their third semester. The Committee will advise the student on matters concerning undergraduate curriculum, applications to dental, medical and veterinary schools, and will oversee the evaluation of his record at the University of Massachusetts at Boston. Students should seek out information on graduate admission requirements as early as possible. Faculty advisers are Dr. Laufer, Department of Chemistry, and Dr. Schultz, Department of Biology.

DIVISION OF SOCIAL SCIENCES

RICHARD H. POWERS, *Chairman of the Division*

ECONOMICS

Harold Wolozin, Ph.D., *Professor of Economics and Chairman of the Department;* Louis Esposito, Ph.D., Leonard J. Kirsch, Ph.D., Salvatore Schiavo-Campo, Ph.D., *Assistant Professors of Economics;* Monique Garrity, M.A., Andrew Hamer, B.A., Yasushi Toda, M.A., *Instructors in Economics;* John D. ffolliott, M.B.A., *Visiting Lecturer in Economics;* Jeffrey M. Fischer, B.A., Otis N. Minot, Ph.D., *Part-time Lecturers in Economics.*

GRADUATION REQUIREMENTS

All Economics majors are required to take Economics 141, 155, and 215–216. The normal major will be 24 hours of Junior-Senior level courses, although by permission of the Department up to 6 hours in related disciplines may be substituted for Economics courses.

Majors planning to go on to graduate study are advised to take Economics 251 and 252 and a Senior Seminar, which in some cases will be multi-disciplinary.

Pre-business Economics majors are required to take Mathematics 102, Economics 131–132, 155, 232, 263, and 304.

Seniors who have a cumulative average of at least 3.0 may be invited by the Department to participate in an Honors Semester to count 3 credits toward the major.

COURSE OFFERINGS

Economics 131 (I), 132 (II) Principles of Accounting
An introduction to the principles of collecting, recording, and interpreting accounting data.
3 hours, 4 credits — Mr. ffolliott

Economics 141 (I, II) Economic Literacy: Economics for Citizenship
The introductory Economics course: a broad, interdisciplinary survey of economic institutions and the role of economics in the life of society and individuals; a background for citizenship and further study in the other social sciences.
3 hours, 4 credits — Staff

Economics 155 (I, II) Statistical Methods
Survey of statistical method as a tool for research and decision in the social sciences.
3 hours, 3 credits
Prerequisite: Mathematics 102 or equivalent — Mrs. Garrity

Economics 214 (I) Research in Urban Problems
The central problems of the megalopolis and the evolving techniques of coping with them.
3 hours, 3 credits
Prerequisite: Economics 141 — Mr. Hamer

Economics 215 (I) Intermediate Economic Theory I: Macro-Economics
Analysis of the forces determining the level and structure of gross national output, and those government policies which attempt to affect economic activities in the United States.
3 hours, 3 credits
Prerequisite: Economics 141 — Mr. Kirsch

Economics 216 (II) Economic Theory II: Micro-Economics
Economic analysis of the individual unit within the economy: the firm, industry, consumer, and determination of prices in various kinds of markets.
3 hours, 3 credits
Prerequisite: Economics 141 — Mr. Esposito

Economics 217 (I, II) The Economics of the Public Sector: Problems in Public Finance
The taxation and expenditure policies of federal, state, and local government.
3 hours, 3 credits
Prerequisite: Economics 141 — Staff

Economics 232 (I) Industrial Organization
Theoretical frameworks for the analysis and evaluation of markets. American industries are examined to illustrate usefulness of economic theory in explaining price and output policy.
3 hours, 3 credits
Prerequisite: Economics 216 — Mr. Esposito

Economics 235 (I) International Economics
Theory of international trade, the balance of payment and its adjustment under various exchange rate systems; specific problems concerning the United States, international cooperation, international organizations.
3 hours, 3 credits
Prerequisite: Economics 141 — Mr. Schiavo-Campo

Economics 236 (II) Economic Development
Economic meaning of underdevelopment. Evaluation of various strategies for economic growth in terms of the social and political framework of underdeveloped countries.
3 hours, 3 credits
Prerequisite: Economics 141 — Mr. Schiavo-Campo

Economics 245 (II) Income Distribution
The economics of the size distribution of income.
3 hours, 3 credits
Prerequisite: Economics 141 Staff
Not offered 1969–1970.

Economics 247 (II) Economics of Social and Human Resources
The development of social and human resources in an economy and the relationship between private and public sectors. General survey of public expenditure criteria, cost benefit analysis and the balance between social and private capital in a mixed economy.
3 hours, 3 credits
Prerequisite: Economics 141 Staff
Not offered 1969–1970.

Economics 251 (I) Mathematical Economics
Static and dynamic models of economic behavior will be formulated.
3 hours, 3 credits
Prerequisite: Mathematics 106 or equivalent; Economics 215–216
Not offered 1969–1970.

Economics 252 (II) Econometrics
Application of statistical methods to economic research. Emphasis on the traditional linear regression model and its extensions.
3 hours, 3 credits
Prerequisite: Economics 255 Staff

Economics 263 (I) Introduction to Data Processing
A rigorous introduction to data processing emphasizing the mathematical and theoretical fundamentals of data processing, illustrated with examples drawn from current data processing projects. Stresses mathematical and logical concepts useful in the social sciences and management.
3 hours, 3 credits
Prerequisite: Mathematics 102 or equivalent Mr. Minot

Economics 272 (II) Comparative Economic Systems
Relationship between market and non-market mechanisms in the production and distribution of economic resources in four economies. First half devoted to analysis of contemporary American capitalism, the British economy under Labor Government 1945–1950, and the German economy of 1934–1945. Second half concentrates on planned economy of the U.S.S.R.
3 hours, 3 credits
Prerequisite: Economics 141 Mr. Kirsch

Economics 291 (II) Economics of Labor and Collective Bargaining
History of labor in the United States. The economic theory of wage determination and collective bargaining.
3 hours, 3 credits
Prerequisite: Economics 141 Mr. Kirsch

Economics 304 (II) Financial Institutions
An intensive study of the structure and function of various institutions that comprise the United States financial system.
3 hours, 3 credits
Prerequisite: Economics 141 Staff
Not offered 1969–1970.

Economics 316 (I, II) Monetary and Fiscal Policy
Analysis and evaluation of the tools of monetary and fiscal policy and their effectiveness in stabilizing economic activity.
3 hours, 3 credits
Prerequisite: Economics 215 Mr. Podoff

Economics 337 (I, II) Twentieth Century Economics
A survey of the principal American economic institutions and their historical roots, with particular emphasis on national economic policy.
3 hours, 3 credits
Prerequisite: Economics 141 or permission of instructor
Mr. Segal

Economics 382 (I, II) Seminar
A Senior Seminar conducted by various members of the faculty with concentration on their fields of scholarly interest.
3 hours, 3 credits
Prerequisite: Permission of instructor Mr. Wolozin and Staff

HISTORY

Louis Ruchames, Ph.D., *Professor of History and Chairman of the Department;* Paul F. Boller, Ph.D., Francis L. Broderick, Ph.D., Thomas N. Brown, Ph.D., Paul A. Gagnon, Ph.D., Walter Grossmann, Ph.D., Richard H. Powers, Ph.D., *Professors of History;* Nathan I. Huggins, Ph.D., William A. Percy, Ph.D., Roger W. Prouty, Ph.D., *Associate Professors of History;* Feroz Ahmad, Ph.D., Van Cleaf Bachman, Ph.D., Pauline Maier, Ph.D., Joan T. Mark, M.A., William Moffett, Ph.D., Lester A. Segal, Ph.D., Renee N. Watkins, Ph.D., Peter Weiler, Ph.D., *Assistant Professors of History;* William L. Bischoff, B.A., Paul Bookbinder, M.A., Clara Estow, M.A., Clive Foss, M.A., I. Linda Gordon, M.A., Kathleen B. Greenfield, M.A., Lester J. Humphreys, MA., Esther R. Kingston, M.A., Jonathan J. Liebowitz, M.A., Ruth Prelowski Liebowitz, M.A., Mordecai Melnitsky, B.A., Timothy McCarthy, M.A., Robert J. Sullivan, M.A., Marvin Swartz, M.A., Martha Tolpin, M.A., *Instructors in History.*

GRADUATION REQUIREMENTS

History majors are required to take History 111–112, 125–126 in their Freshman and Sophomore years, and History 200 or 201 in their Junior year. Their major program must also include 3 hours of course work in Ancient, Medieval or the Early Modern period (before 1648), 6 hours in Euro-

pean history since 1815, and 12 hours from other courses offered in the Department. History majors will ordinarily be expected to fulfill the science requirement by taking Biology and Physics or Chemistry.

COURSE OFFERINGS

History 111 (I, II), 112 (I, II) Modern Western Civilization
The historical development of European civilization, ideas and institutions, including America's place in the Western world. Training in oral and written expression.
3 hours, 4 credits each semester — Staff

History 125 (I), 126 (II) American History
A survey of American history from 1763 to the present. The expansion and consolidation of the American Union, the development of national and international policies and the cultural and economic forces that shaped them.
3 hours, 4 credits
Prerequisite: History 111–12 — Staff

History 200 (I, II) Seminar in European History
A problems course intended to give training in historical research and writing. The field of study will vary each semester.
3 hours, 3 credits
Prerequisite: History 111–12, 125–26 — Staff

History 201 (I, II) Seminar in American History
Similar to History 200, but dealing with American history.
3 hours, 3 credits
Prerequisite: History 111–112, 125–126 — Staff

History 203 (I), 204 (II) Special Problems
Guided reading and research; may be used in departmental Honors program.
3 hours, 3 credits
Prerequisite: Senior standing; History major — Staff

History 205 (I) Greek History
A survey of the origin, rise and development of ancient Greek civilization from the arrival of the Greeks in Europe until the death of Cleopatra. Emphasis on the rise of the Greek city-state and the spread of Greek culture to the East.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Sullivan

History 206 (II) Roman History
The Roman state from its origins until the triumph of Christianity. Republic and Empire will receive equal attention. Closely related to History 205; the two courses provide a continuous history of the Mediterranean world from about 700 B.C. to 300 A.D.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Sullivan

History 210 (I) Early Middle Ages
Medieval history from Marcus Aurelius to approximately 1000 A.D.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Percy

History 211 (II) Later Middle Ages
Medieval history from 1000 A.D. to the Italian Renaissance.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Percy

History 231 (I), 232 (II) English History
An introduction to the constitutional, political, economic, social, religious and intellectual history of England, from the eve of the Norman Conquest to Restoration in the first semester, from the Restoration to the present in the second.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Moffett

History 233 (I) France: 1495 to 1815
An analysis of the social, economic, intellectual and political currents that produced absolute monarchy and the Revolution.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Segal

History 234 (II) France: 1815 to the Present
The development of parliamentary institutions and crises in their social, economic and intellectual settings; France's role in the world.
3 hours, 3 credits
Prerequisite: Junior standing
Not offered 1969–1970. — Staff

History 235 (I), 236 (II) Russian History
A survey of the political, economic, social and intellectual development of Russia, from Kiev to the emancipation of the serf (1861) in the first semester, through the Soviet Union in the Second World War in the second.
3 hours, 3 credits
Prerequisite: Junior standing — Miss Kingston

History 237 (I) German History to 1815
Medieval origins of Germany, the Reformation, the rise of Brandenburg-Prussia, the German Enlightenment, Germany and the French Revolution.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Bookbinder

History 238 (II) German History Since 1815
German liberalism, nationalism, conservatism in 19th Century, revolution of 1848, unification, World War I, Weimar, and the Nazi period.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Bookbinder

History 239 (I), 240 (II) Age of the Renaissance and Reformation
Men, ideas, and institutions of 14th through 16th Century Europe.
3 hours, 3 credits
Prerequisite: Junior standing Mrs. Watkins

History 250 (I) American Colonial History: The Earliest Settlements to 1763
The English background of emigration and settlement. The evolution of imperial institutions. American social, economic, and religious development; emphasis on political ideas, institutions and behavior in the 17th and 18th Centuries.
3 hours, 3 credits
Prerequisite: Junior standing Mrs. Maier

History 251 (II) American Colonial History: The American Revolutionary Era, 1763–1789
The development of the conflict with Britain, 1763–1776; the Revolutionary War and its effects; the forming of republican institutions for state and federal governments.
3 hours, 3 credits
Prerequisite: Junior standing Mrs. Maier

History 253 (I) The Age of Jackson and Lincoln
A social, economic, political and cultural history of the United States from 1815 to 1861.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Ruchames

History 254 (II) Civil War and Reconstruction History
Causes of the Civil War, its social, political, and ideological history, and the problems and results of Southern reconstruction.
3 hours, 3 credits
Prerequisite: History 125, 126, or Junior standing Mr. Ruchames

History 255 (I) The United States in the Twentieth Century, 1900–1937
American politics and culture from the Progressive Period through the New Deal.
3 hours, 3 credits
Prerequisite: History 126 or permission of instructor Mr. Brown

History 256 (II) The United States in the Twentieth Century, 1937–1969
American politics and culture from the New Deal to the present.
3 hours, 3 credits
Prerequisite: History 126 or permission of instructor Mr. Brown

History 257 (I) American Social History to the Civil War
The emergence of social institutions in America from the establishment of colonies to the mid-19th century.
3 hours, 3 credits
Prerequisite: Junior standing
Not offered 1969–1970. Mr. Huggins

History 258 (II) American Social History from the Civil War to the Present
The American Dream as it has related to institutions and ethnic groups in 20th century U.S.
3 hours, 3 credits
Prerequisite: Junior standing
Not offered 1969–1970. Mr. Huggins

History 260 (I), 261 (II) History of American Thought
Ideas in America—religious, scientific, political, social, and economic—from the colonial period to the Civil War in the first semester, and from the end of the Civil War to the New Deal in the second semester.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Boller

History 264 (I) History of American Foreign Policy, 1763–1900
Survey of the history of United States foreign policy and relations with the rest of the world, from the colonial period to the end of the 19th century; emphasis on domestic sources of foreign policy and U.S. expansionism.
3 hours, 3 credits
Prerequisite: History 126 or Junior standing Staff

History 265 (II) History of American Foreign Policy, The Twentieth Century
Survey of the history of United States foreign policy and diplomatic relations with other powers from the turn of the century to the 1960's. Emphasis on domestic sources of foreign policies and on general topics such as World Wars I and II, Cold War diplomacy, and the debate over America's role in world affairs.
3 hours, 3 credits
Prerequisite: History 126 or Junior standing Staff

History 308 (II) Europe During the Wars of Religion: 1555–1648
A survey of the Reformation and European politics and national development.
3 hours, 3 credits
Prerequisite: Junior standing Mrs. Liebowitz

History 310 (I) Eighteenth Century Europe: Europe in the Age of Enlightenment
The main currents of European thought in their historical setting.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Grossmann

History 325 (I) The Middle East, 622–1517
Interaction between Islamic Society and the West from the rise of Islam (622) to the Turkish conquest of Egypt.
3 hours, 3 credits
Prerequisite: Junior standing Staff

History 326 (II) The Middle East, 1517 to the Present
The Middle Eastern response to the West in the age of European expansion and domination.
3 hours, 3 credits
Prerequisite: Junior standing — Staff

History 329 (I), 330 (II) Europe in the Twentieth Century
Political, economic, social and intellectual history of Europe, with attention to extra-European influences. From 1900 to 1939 in the first semester, 1939 to the present in the second.
3 hours, 3 credits
Prerequisite: Junior standing — Staff

History 339 (I) Diplomatic History of Europe: 1815–1914
The diplomacy of the Concert of Europe, the Eastern Question and Bismarck and of imperialism leading to the outbreak of war in 1914.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Ahmad

History 340 (II) Diplomatic History of Europe: 1914 to the Present
The system of collective security set up after World War I, and the failure of this system before the Second World War. Discussion of the origins and consequences of the Cold War.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Ahmad

History 345 (I) Economic History of Western Europe to 1750
Study of the economics of Western Europe from 500 to 1750.
3 hours, 3 credits
Prerequisite: History 111 — Mr. Bachman

History 346 (II) Economic History of Western Europe, 1750 to the Present
Study of the economics of Western Europe from 1750 to the present.
3 hours, 3 credits
Prerequisite: History 111 — Mr. Bachman

History 350 (I) Britain in the Twentieth Century
A survey of political and social change in Britain since 1900.
3 hours, 3 credits
Prerequisite: Junior standing — Staff

POLITICS

George Goodwin, Jr., Ph.D., *Professor of Politics and Chairman of the Department;* Glenn E. Tinder, Ph.D., *Professor of Politics;* Emil Starr, Ph.D., *Associate Professor of Politics;* Richard A. Hogarty, Ph.D., David A. Nichols, Ph.D., Gene E. Sharp, Ph.D., Lois de Menil, Ph.D., *Assistant Professors of Politics;* Sanford B. Gabin, M.A., Maynard Toll, M.A., *Instructors in Politics.*

GRADUATION REQUIREMENTS

Politics majors are required to take Politics 121 and 122 and 8 courses above the introductory level. At least 1 upper level course should come from each of these 4 fields: American Government and Politics, Comparative Government and Politics, International Relations, Political Theory.

COURSE OFFERINGS

Politics 121 (I, II) Contemporary Political Ideas and Institutions
Political ideas, institutions and processes, as illustrated by the Communist, Fascist, and Democratic systems of the 20th Century.
3 hours, 4 credits — Staff

Politics 122 (II) Government and Politics of the United States
The three main branches of the national government, federalism, political parties and interest groups, and governmental functions.
3 hours, 4 credits — Staff

Politics 201 (I) Political Parties
The American political process, with emphasis on political parties, pressure groups and public opinion.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Goodwin

Politics 212 (II) The Legislative Process
The functions of national and state legislatures, and the role played by political parties and interest groups in the legislative process.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Goodwin

Politics 223 (I) Public Administration
A study of the bureaucratic process, emphasizing organizational behavior, changes in administrative institutions and theories, and the political role of bureaucracy.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Hogarty

Politics 231 (I) American Constitutional Law and Theory
The development of the United States Constitution, chiefly through decisions of the Supreme Court. Emphasis on the origin and nature of judicial power, the way it inhibits and facilitates operation of the political process, and the search for standards by which to judge the judges.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Gabin

Politics 241 (I) Metropolitan Politics
Municipal politics, organization and functions; special reference to impact of recent social and economic changes upon city, suburban and intergovernmental politics in metropolitan regions.
3 hours, 3 credits
Prerequisite: Junior standing — Staff

Politics 244 (II) The Federal System
Consequences of areal division of power for politics at national, state and local levels.
3 hours, 3 credits
Prerequisite: Junior standing — Staff

Politics 245 (II) State and Local Politics
The dynamics of politics in the 50 states and their localities.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Hogarty

Politics 251 (I), 252 (II) European Comparative Government
The political institutions of the major European states, such as France, Germany, Great Britain, Italy and the Soviet Union.
3 hours, 3 credits
Prerequisite: Junior standing — Staff

Politics 254 (II) Government and Politics of the Soviet Union
The historical and ideological origins of the Soviet Union; the role and beliefs of the Communist party under Lenin and Stalin and in the post-Stalin period; contemporary Soviet ideology and Western theories of totalitarianism.
3 hours, 3 credits
Prerequisite: Junior standing — Staff

Politics 257 (I), 258 (II) Government and Politics of Africa
A study of African government and politics with special emphasis on stability in African political systems and on the role of tribes, political parties, armies, and government bureaucracies.
3 hours, 3 credits
Prerequisite: Junior standing — Staff

Politics 260 (II) Resistance, Rebellion and Revolution
A study of the political nature of mass revolution, coup d'état, guerilla warfare and nonviolent struggle.
3 hours, 3 credits
Prerequisite: Junior standing — Staff

Politics 271 (I) Contemporary Asian Politics: China and Japan
The governments and politics of China and Japan since World War II with emphasis on the domestic political systems and the regional and international environments in which they have developed.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Toll

Politics 301 (I) International Relations
The nation-state system and conceptions of national interest in modern world politics; forms and distribution of power; the making of foreign policy and adjusting international conflict.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Toll

Politics 304 (II) American Foreign Policy
Major issues and problems of American foreign policy in the contemporary world.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Toll

Politics 351 (I) Ancient and Medieval Political Thought
The origins and the early development of the main political ideas of the West.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Tinder

Politics 352 (II) Modern Political Thought
The history of Western political ideas from the time of Machiavelli to that of Marx.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Tinder

Politics 356 (II) American Political Thought
An analytical and historical study of the development of American political thought and institutions from colonial times. Primary source readings feature the ideas and deeds of those who have shaped the American concept of free government.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Gabin

Politics 391 (I), 392 (II) Seminar
Intensive studies in various important fields in politics. Emphasis placed on independent research.
3 hours, 3 credits
By invitation of the Department — Staff

Politics 393 (I), 394 (II) Special Problems
Guided reading in special areas of Politics. May be used for Honors thesis.
3 hours, 3 credits
By invitation of the Department — Staff

Politics 395 (I), 396 (II) Special Problems in the Field of Politics
Special-topic seminars given by visiting instructors to enrich the Politics course offerings.
3 hours, 3 credits
Prerequisite: Permission of the Department

PSYCHOLOGY

Donald Krus, Ph.D., *Professor of Psychology and Chairman of the Department;* David Moriarty, M.D., Bernard P. Rosenblatt, Ph.D., *Professors of Psychology;* Maxwell J. Schleifer, Ph.D., *Associate Professor of Psychology;* Arthur R. Carlson, Ph.D., Seymour Friedland, Ph.D., Suzanne M. Gassner, Ph.D., Stanley D. Klein, Ph.D., Paul J. Rhudick, Ph.D., Burton Weiss, Ph.D., *Assistant Professors of Psychology;* Bruce C. Blaney, M.A., Robert Brooks, M.A., Thomas A. Kreilkamp, B.A., Larry Lee Larsen, M.A., Barbara

Ross, M.A., *Instructors in Psychology;* Kalmar Heller, Ph.D., *Lecturer in Psychology;* Sanford Autor, Ph.D., Bernard Levine, Ph.D., Lorraine Low, Ph.D., *Visiting Lecturers in Psychology.*

GRADUATION REQUIREMENTS

Psychology majors must take Psychology 122 plus 8 advanced courses, including Psychology 235. Majors who intend to apply to graduate departments of Psychology are strongly advised to take Psychology 271. Students who wish to take an advanced course before their Junior year must have permission of the instructor.

COURSE OFFERINGS

Psychology 122 (I, II) Introduction to Psychology: Psychoanalysis and the Study of Man
Basic psychoanalytic concepts applied to the study of man.
3 hours, 4 credits
Prerequisite: Sophomore standing — Staff

Psychology 235 (I, II) Systems of Psychology
An appraisal of major trends in contemporary psychology, based on historical evaluation of the leading concepts.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Schleifer

Psychology 237 (I, II) Developmental Psychology
Normal and abnormal development of mind and personality, with special emphasis on infancy, childhood and adolescence.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Klein

Psychology 239 (I, II) Educational Psychology
Application of psychological concepts to education with emphasis on the role of the school, the family, the classroom and the teacher in the educational process.
3 hours, 3 credits
Prerequisite: Junior standing — Staff

Psychology 240 (I, II) Abnormal Psychology
Study of etiology, dynamics and treatment of psychopathology.
3 hours, 3 credits
Prerequisite: Junior standing — Staff

Psychology 250 (I, II) Theories and Fundamental Issues of Learning
Review of such basic learning theories as those of Pavlov, Hull, Tolman, and Kohlet, and an attempt to apply theory to selected topics.
3 hours, 3 credits
Prerequisite: Junior standing
Not offered 1969–1970. — Staff

Psychology 260 (I, II) Theories of Personality
A comprehensive history and study of major personality theories.
3 hours, 3 credits
Prerequisite: Junior standing — Mr. Schleifer

Psychology 270 (I, II) Social Psychology
A basic survey of social psychology: groups, socialization and attitudes. Special emphasis placed on Freud's views as an integrative theoretical orientation.
3 hours, 3 credits
Prerequisite: Psychology 122 and Junior standing — Staff

Psychology 271 (I, II) Experimental Method in Psychology
The historical foundations and development of psychology as a science with focus on the nature of scientific method in general, and experimental method in particular.
3 hours, 3 credits
Prerequisite: Psychology 122; majors only
or permission of instructor — Staff

Psychology 272 (I, II) Psychology of Perception
The traditional problems of perception, with focus on the changing theoretical perspectives within which these problems are viewed. Evolution in theory from early elementalistic approaches to the more current concern with perception-personality relationships.
3 hours, 3 credits
Prerequisite: Psychology 122 and Junior standing — Mr. Krus

Psychology 273 (I, II) Physiological Psychology
A basic survey of physiological psychology: sensory processes, motor behavior, drives and instincts, arousal and learning.
3 hours, 3 credits
Prerequisite: Psychology 122 — Mr. Weiss

Psychology 275 (I, II) Thinking and Disorders of Thought
The nature of the thought process; theories of thinking; contributions of psychopathology to an understanding of thinking.
3 hours, 3 credits
Prerequisite: Psychology 122 and Junior standing
— Mr. Moriarty

Psychology 277 (I, II) Comparative Psychology
Evolution of behavior, similarities and differences in capacities for environmental adjustment and for behavioral organization among the important types of living beings, from plants and unicellular organisms to the primates, including man.
3 hours, 3 credits — Staff

Psychology 280 (I, II) History of Psychology
An examination of psychological concepts from Aristotle to Freud; a consideration of the classic doctrines of man, the views of the 17th century philosophers, the Darwinian influence, and a preview of 19th century developments.
3 hours, 3 credits — Staff

SOCIOLOGY AND ANTHROPOLOGY

Richard H. Robbins, Ph.D., *Professor of Sociology and Chairman of the Department;* Gordon C. Zahn, Ph.D., *Professor of Sociology;* Barbara Chasin, Ph.D., John K. Dickinson, Ph.D., Peggy Cook Marquis, Ph.D., *Assistant Professors of Sociology;* Juan E. Corradi, M.A., *Instructor in Sociology;* Lucille Kaplan, M.A., *Part-time Instructor in Anthropology;* Barbara Ayres, Ph.D., Joan Harris, Ph.D., Metta Spencer, M.A., *Lecturers in Sociology.*

GRADUATION REQUIREMENTS

The Department of Sociology and Anthropology offers a major in Sociology, with the possibility of strong concentration in Anthropology. Majors should take introductory courses in Psychology and Sociology during the Sophomore year and a minimum of 8 additional courses in the Junior and Senior years. Within the major, the Department requires 1 course in Anthropology, Sociology 356, and Sociology 382 (to be taken during the Senior year). At the invitation of the Department, a Senior may take individual directed study with an emphasis on independent research. Majors are encouraged to choose related subjects within the Division of Social Sciences.

COURSE OFFERINGS

Sociology 121 (I, II) Introduction to Sociology
An introduction to the structure of society, cultural patterns, and group life. The individual and socialization, groups, institutions, social systems, social change.
3 hours, 4 credits Staff

Anthropology 122 (I, II) Introduction to Anthropology
A general introduction to social anthropology, with an emphasis on comparative analysis of non-Western peoples, their cultures and social structures, ethnological generalizations from reading on primitive and peasant societies.
3 hours, 4 credits Staff

Sociology 221 (II) The Urban Community
The development of the city as a complex form of the human community. History and growth of urbanism in industrial societies and developing nations. Urban change and the problem of planning.
3 hours, 3 credits
Prerequisite: Sociology 121 and Psychology 122 Mr. Robbins

Anthropology 225 (II) Man in Prehistory
Human evolution and man's early cultural development. Integrates traditional physical anthropology and prehistoric archeology. Emergence of hominids and living races of men; analysis of cultural growth in New and Old Worlds.
3 hours, 3 credits
Prerequisite: Sociology 121 or Anthropology 122 Mrs. Kaplan

Sociology 252 (I) Racial and Ethnic Relations
Conflicts and accommodations among differing racial and ethnic groups. Nature and character of prejudice and discrimination. Minority-majority relations in selected societies.
3 hours, 3 credits
Prerequisite: Sociology 121 Staff

Sociology 253 (II) Population and Ecology
The population explosion, birth, death and illness. Immigration and emigration. How the human and physical environment interacts with features of population.
3 hours, 3 credits
Prerequisite: Sociology 121 Mr. Dickinson

Sociology 262 (II) Political Sociology
An interdisciplinary study with stress on the nature of power and its distribution in society. Alternative approaches to changing and transforming power structures.
3 hours, 3 credits
Prerequisite: Sociology 121 and Politics 121 Staff

Anthropology 268 (I) Peoples and Cultures of Meso-America
Focus on social change in modern Meso-America; the modernization process and its relation to rural society; urbanization and the development of contemporary elites.
3 hours, 3 credits
Prerequisite: Sociology 121 or Anthropology 122 Staff

Anthropology 270 (I) Comparative Ethnology
The wide range of cultural variation to be found in different world regions. Intensive comparative analysis of representative cultures and social structures.
3 hours, 3 credits
Prerequisite: Sociology 121 or Anthropology 122 Mrs. Ayres

Psychology 270 (I, II) Social Psychology
Can be credited toward Sociology major. See Psychology Department for description and prerequisite.

Sociology 274 (I) Social Deviance and Control
The social conditions of individual and group behavior disorders; deviant subcultures and social control.
3 hours, 3 credits
Prerequisite: Sociology 121 Mrs. Marquis

Sociology 316 (I) Social Change and Modernization
Social and economic aspects of development and modernization in various societies. Special emphasis on Latin America.
3 hours, 3 credits
Prerequisite: Sociology 121 and/or Anthropology 122
Mr. Corradi

Sociology 327 (I) Social Stratification
Social classes in traditional and industrial societies. Classes, castes and mobility. Theories of class relationships, conflicts. Marxist and other ideologies.
3 hours, 3 credits
Prerequisite: Sociology 121 and Psychology 122 Mrs. Chasin

Sociology 339 (II) Sociology of Religion
Belief systems and social structures of religious groups. Impact of religious systems on familial, economic, political and other institutions.
3 hours, 3 credits
Prerequisite: Permission of instructor Mr. Zahn

Sociology 356 (I, II) Methods of Sociological Research
Design of sociological research and methods of inquiry. Organization and analysis of data. Development of research projects.
3 hours, 3 credits
Prerequisite: Junior standing Mr. Dickinson, Mrs. Marquis

Sociology 382 (I, II) Elements of Sociological Theory
Reading and discussion of basic sociological works in theory. Relevance of earlier and contemporary theory to contemporary sociological interests and research.
3 hours, 3 credits
Prerequisite: Sociology 121 Mr. Zahn

Sociology 389 (I, II) Special Topics Seminar
Intensive study of special topics varying each year according to instructor.
3 hours, 3 credits
Prerequisite: Sociology 121 and permission of instructor
Mr. Zahn

Anthropology 389 (I, II) Special Topics Seminar
Intensive study of special topics varying each year according to instructor.
3 hours, 3 credits
Prerequisite: Sociology 121 and permission of instructor
Mr. Zahn

Sociology 399 (I, II) Directed Study in Sociology
Students may be invited by the Department to conduct independent research during the Senior year. Periodic consultation and guidance provided by the staff.
Hours by appointment; 3 credits
Prerequisite: Sociology 121 and Psychology 122
Mr. Robbins and Staff

Anthropology 399 (I, II) Directed Study in Anthropology
Students may be invited by the Department to conduct independent research during the Senior year. Periodic consultation and guidance provided by the staff.
Hours by appointment; 3 credits
Prerequisite: Sociology 121 and Psychology 122
Mr. Robbins and Staff

DIVISIONAL COURSES IN SOCIAL SCIENCES

Social Science 300 (I, II) Contemporary Problems
Study of current topics of importance.
3 hours, 3 credits
Prerequisite: Junior standing Staff

Social Science 386 (I, II) Teaching of Secondary School Social Sciences
The issues, principles, and methods of secondary school social science teaching; supervision and critique of practice teaching.
3 hours, 20 hours laboratory, 6 credits
Prerequisite: 6 hours in Education courses;
Permission of Teacher Certification Program Staff

TEACHER CERTIFICATION PROGRAM

Students seeking careers in education may avail themselves of the services of the Teacher Certification Program. The staff provides information and counseling to all students interested in preparing to teach. In addition, the program enables highly qualifed students who have demonstrated a potential for leadership in the schools to satisfy Massachusetts requirements for certification. Since the University at Boston offers no major in Education, a teaching candidate pursues the University's normal degree and major sequences. At the same time, by judicious choice of electives from among those offered by several departments, he may acquire credits in courses approved for certification. The program culminates in the Senior year when, under the direction of the faculty of his major department, the student enters practice teaching and participates concurrently in a curriculum-and-methods seminar.

REQUIREMENTS FOR CERTIFICATION

The Commonwealth of Masachusetts issues teaching certificates to American citizens who hold the bachelor's degree and who comply with certain additional requirements. Briefly summarized, those requirements are, for elementary teaching, 18 credits in approved courses; for secondary teaching, 12 credits in approved courses, plus concentration in a subject taught in the secondary school. Approved courses must include at least two of the following four subjects: Psychology of Education, Philosophy of Education, Curriculum, Methods of Instruction. Supervised teaching experience is also necessary for both the elementary and the secondary certificate.

ADMISSION TO THE TEACHER CERTIFICATION PROGRAM

With the exception of the Senior curriculum-and-methods seminar and concurrent practice teaching, all courses leading to certification are open to every student. Admission to the Senior year program requires a cumulative average of at least 3.0 by the end of the Junior year, as well as the approval of the student's major department and of the Coordinator of the TCP. A student who by reason of special circumstances can satisfy only two of these three criteria may appeal for favorable consideration on one of several grounds: (1) he has distinguished himself in his major field, although not in other subjects; (2) he has distinguished himself in recent semesters; or (3) he can show evidence of unusual talent for, or interest in, work with children. Appeals are referred to a Faculty Committee which includes the Coordinator of the TCP, and which may also include a faculty advocate designated by the appellant.

APPLICATION PROCEDURE

Because preparation for teaching makes demands beyond those ordinarily required to earn a degree, the prospective candidate must begin to plan early. He should register with the Teacher Certification Program before the middle of his Sophomore year, and should seek assistance in planning his future program from the TCP Coordinator and from a member of his major department. He may want to consider attending at least one Summer Session in order to relieve the pressures of the Senior year, when practice teaching will claim a large share of his time and energy.

Those who wish to enroll in the curriculum-and-methods/practice teaching sequence must apply for admission before February 15 of the Junior year. Application forms are available in the TCP office.

COURSES APPROVED FOR CERTIFICATION:

The following courses may be counted toward fulfillment of Massachusetts certification requirements. Starred courses are especially recommended.

Economics 141 Economic Literacy: Economics for Citizenship

English 252 Advanced Composition

English 374 Principles and Methods of Literary Criticism

English 375 History of the English Language

French 362 L'Education vue par les Ecrivains français

History 200 Seminar in European History

History 201 Seminar in American History

History 258 American Social History from the Civil War to the Present

Mathematics 260 Elementary Mathematics from an Advanced Standpoint

***Philosophy 281 Philosophy of Education**

Psychology 237 Developmental Psychology

***Psychology 239 Educational Psychology**

Psychology 250 Theories and Fundamental Issues of Learning

The electives below are open only to Seniors who have completed two or more certification courses and who have been admitted to the Teacher Certification Program. All include a half-day of practice teaching, five days a week, for a period of ten weeks, under the supervision of experienced teachers and University faculty. Students are urged to carry a reduced course load, if possible, during the practice teaching semester.

Classics 386 Teaching of Secondary School Latin

English 386 Teaching of Secondary School English

Humanities 386 Teaching of Secondary School Foreign Languages

Mathematics 260 Elementary Mathematics from an Advanced Standpoint

Biology 386 Practice Teaching of Biology

Social Sciences 386 Teaching of Secondary School Social Studies

TCP 390 Seminar in Elementary School Curriculum and Methods of Practice Teaching

See department listings for full description of courses.

KEY

Building 1—100 Arlington Street
- Auditorium—basement
- Biology Department—13th floor
- Chancellor's Office—12th floor
- Chemistry Department—13th floor
- Dean's Office—12th floor
- Financial Aid Office—4th floor
- Health Services—mezzanine
- Language Laboratories—2nd floor
- Natural Sciences Office—13th floor
- Physics Department—13th floor
- Science Laboratories—
- Science Library—mezzanine
- Student Affairs Office—4th floor
- Treasurer's Office—2nd floor

Building 2—142 Berkeley Street (Sawyer Building)
- Advising Office—4th floor
- Art Department—4th floor
- Book Store—first floor
- Cafeteria—basement
- Career Planning—4th floor
- Teacher Certification—4th floor

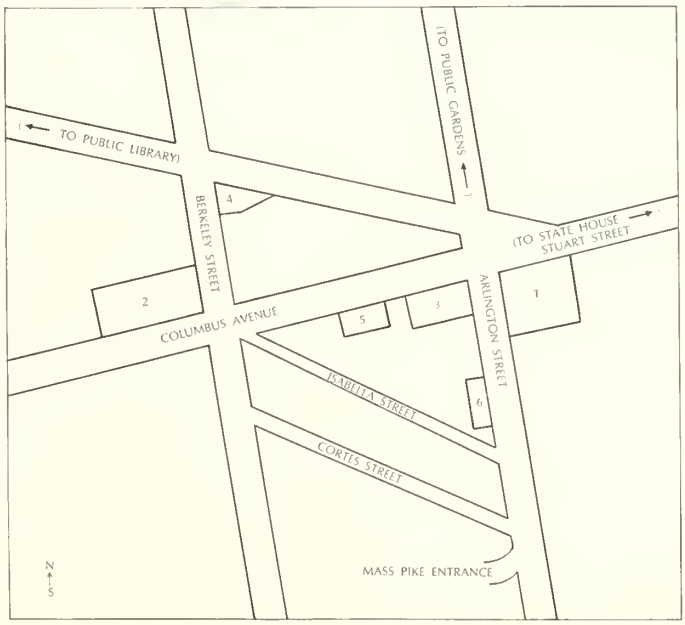
Building 3—130 Columbus Avenue—Library

Building 4—330 Stuart Street (Salada Building)
- Classics Department—8th floor
- Economics Department—6th floor
- History Department—6th floor
- Philosophy Department—8th floor
- Politics Department—6th floor
- Psychology Department—8th floor
- Russian Department—8th floor
- Social Sciences Offices—6th floor
- Sociology Department—6th floor

Building 5—172 Columbus Avenue (Hale Building)
- English Department—2nd floor
- Summer School Office—2nd floor

Building 6—131 Arlington Street (Avis Building)
- Admissions Office—first floor
- Business Office—2nd floor
- German Department—2nd floor
- Registrar's Office—first floor

Building 7—80 Boylston Street (Little Building)
- French Department—6th floor
- Italian Department—6th floor
- Mathematics Department—8th floor
- Spanish Department—8th floor



FACULTY OF RESIDENT INSTRUCTION

1968-1969

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